

new/usr/src/head/aio.h

1

```
*****
4630 Sat Aug  2 23:27:02 2014
new/usr/src/head/aio.h
remove support for non-ANSI compilation
*****
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27 */

29 #ifndef _AIO_H
30 #define _AIO_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/feature_tests.h>
33 #include <sys/types.h>
34 #include <sys/fcntl.h>
35 #include <sys/signifo.h>
36 #include <sys/aiocb.h>
37 #include <time.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 #if      (_POSIX_C_SOURCE - 0 > 0) && (_POSIX_C_SOURCE - 0 <= 2)
44 #error  "POSIX Asynchronous I/O is not supported in POSIX.1-1990"
45 #endif

47 /* large file compilation environment setup */
48 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
49 #ifdef __PRAGMA_REDEFINE_EXTNAME
50 #pragma redefine_extname      aio_read      aio_read64
51 #pragma redefine_extname      aio_write     aio_write64
52 #pragma redefine_extname      lio_listio    lio_listio64
53 #pragma redefine_extname      aio_error     aio_error64
54 #pragma redefine_extname      aio_return    aio_return64
55 #pragma redefine_extname      aio_cancel    aio_cancel64
56 #pragma redefine_extname      aio_suspend   aio_suspend64
57 #pragma redefine_extname      aio_fsync    aio_fsync64
58 #pragma redefine_extname      aio_waitn     aio_waitn64
59 #else
```

new/usr/src/head/aio.h

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```
60 #define aiocb      aiocb64
61 #define aiocb_t    aiocb64_t
62 #define aio_read   aio_read64
63 #define aio_write  aio_write64
64 #define lio_listio lio_listio64
65 #define aio_error  aio_error64
66 #define aio_return aio_return64
67 #define aio_cancel aio_cancel64
68 #define aio_suspend aio_suspend64
69 #define aio_fsync  aio_fsync64
70 #define aio_waitn  aio_waitn64
71 #endif
72 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

74 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
75 /*
76  * In the LP64 compilation environment, map the 64-bit-explicit versions
77  * back to the generic versions: all i/o operations are already "large file"
78  */
79 #ifdef __PRAGMA_REDEFINE_EXTNAME
80 #pragma redefine_extname      aio_read64      aio_read
81 #pragma redefine_extname      aio_write64     aio_write
82 #pragma redefine_extname      lio_listio64    lio_listio
83 #pragma redefine_extname      aio_error64     aio_error
84 #pragma redefine_extname      aio_return64    aio_return
85 #pragma redefine_extname      aio_cancel64    aio_cancel
86 #pragma redefine_extname      aio_suspend64   aio_suspend
87 #pragma redefine_extname      aio_fsync64     aio_fsync
88 #pragma redefine_extname      aio_waitn64     aio_waitn
89 #else
90 #define aiocb64      aiocb
91 #define aiocb64_t    aiocb_t
92 #define aio_read64   aio_read
93 #define aio_write64  aio_write
94 #define lio_listio64 lio_listio
95 #define aio_error64  aio_error
96 #define aio_return64 aio_return
97 #define aio_cancel64 aio_cancel
98 #define aio_suspend64 aio_suspend
99 #define aio_fsync64  aio_fsync
100 #define aio_waitn64  aio_waitn
101 #endif
102 #endif /* !_LP64 && _LARGEFILE64_SOURCE */

104 /*
105  * function prototypes
106  */
107 #if      defined(__STDC__)
107 extern int      aio_read(aiocb_t *);
108 extern int      aio_write(aiocb_t *);
109 extern int      lio_listio(int,
110                          aiocb_t * _RESTRICT, const * _RESTRICT,
111                          int, struct sigevent * _RESTRICT);
112 extern int      aio_error(const aiocb_t *);
113 extern ssize_t  aio_return(aiocb_t *);
114 extern int      aio_cancel(int, aiocb_t *);
115 extern int      aio_suspend(const aiocb_t * const[], int,
116                          const struct timespec *);
117 extern int      aio_fsync(int, aiocb_t *);
118 extern int      aio_waitn(aiocb_t *[], uint_t, uint_t *,
119                          const struct timespec *);
120 #endif

122 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
123 !defined(__PRAGMA_REDEFINE_EXTNAME))
124 extern int      aio_read64(aiocb64_t *);
```

```
125 extern int aio_write64(aiocb64_t *);
126 extern int lio_listio64(int,
127     aiocb64_t *_RESTRICT_KYWD const *_RESTRICT_KYWD,
128     int, struct sigevent *_RESTRICT_KYWD);
129 extern int aio_error64(const aiocb64_t *);
130 extern ssize_t aio_return64(aiocb64_t *);
131 extern int aio_cancel64(int, aiocb64_t *);
132 extern int aio_suspend64(const aiocb64_t *const[], int,
133     const struct timespec *);
134 extern int aio_fsync64(int, aiocb64_t *);
135 extern int aio_waitn64(aiocb64_t *[], uint_t, uint_t *,
136     const struct timespec *);
137 #endif /* _LARGEFILE64_SOURCE */
```

```
140 #else
141 extern int aio_read();
142 extern int aio_write();
143 extern int lio_listio();
144 extern int aio_error();
145 extern ssize_t aio_return();
146 extern int aio_cancel();
147 extern int aio_suspend();
148 extern int aio_fsync();
149 extern int aio_waitn();
```

```
151 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
152     !defined(__PRAGMA_REDEFINE_EXTNAME))
153 extern int aio_read64();
154 extern int aio_write64();
155 extern int lio_listio64();
156 extern int aio_error64();
157 extern ssize_t aio_return64();
158 extern int aio_cancel64();
159 extern int aio_suspend64();
160 extern int aio_fsync64();
161 extern int aio_waitn64();
162 #endif /* _LARGEFILE64_SOURCE */
```

```
164 #endif /* __STDC__ */
```

```
139 #ifdef __cplusplus
140 }
```

```
    unchanged_portion_omitted
```

new/usr/src/head/alloca.h

1

```
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2109 Sat Aug 2 23:27:02 2014
new/usr/src/head/alloca.h
remove support for non-ANSI compilation
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27 */

29 #ifndef _ALLOCA_H
30 #define _ALLOCA_H

32 #pragma ident "%Z%M% %I% %E% SMI"

32 #include <sys/types.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 /*
39  * Many compilation systems depend upon the use of special functions
40  * built into the the compilation system to handle variable argument
41  * lists and stack allocations. The method to obtain this in SunOS
42  * is to define the feature test macro "__BUILTIN_VA_ARG_INCR" which
43  * enables the following special built-in functions:
44  *   __builtin_alloca
45  *   __builtin_va_alist
46  *   __builtin_va_arg_incr
47  * It is intended that the compilation system define this feature test
48  * macro, not the user of the system.
49  *
50  * The tests on the processor type are to provide a transitional period
51  * for existing compilation systems, and may be removed in a future
52  * release.
53  */

55 #if defined(__BUILTIN_VA_ARG_INCR) || \
56     defined(__sparc) || defined(__i386) || defined(__amd64)
57 #define alloca(x)   __builtin_alloca(x)

59 #ifdef __STDC__
```

new/usr/src/head/alloca.h

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```
59 extern void *__builtin_alloca(size_t);
61 #else
62 extern void *__builtin_alloca();
63 #endif

61 #else

67 #ifdef __STDC__
63 extern void *alloca(size_t);
69 #else
70 extern void *alloca();
71 #endif

65 #endif /* defined(__BUILTIN_VA_ARG_INCR) || defined(__sparc) ... */

67 #ifdef __cplusplus
68 }
_____ unchanged_portion_omitted
```

new/usr/src/head/apprtrace\_impl.h

1

```
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1772 Sat Aug 2 23:27:02 2014
new/usr/src/head/apprtrace_impl.h
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26 */

28 #ifndef _APPTRACE_IMPL_H
29 #define _APPTRACE_IMPL_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"

31 #ifdef __cplusplus
32 extern "C" {
33 #endif

35 typedef struct abisym {
36     void    *a_real;
37     int     a_vflag;
38     int     a_tflag;
39 } abisym_t;

41 /*
42  * From the apptrace auditing object
43  */
44 extern FILE *__abi_outfile;
45 extern struct liblist *__abi_pflib_list;

47 extern sigset_t abisigset;

49 #ifdef __STDC__

49 extern void abilock(sigset_t *);
50 extern void abiunlock(sigset_t *);

52 extern int     is_empty_string(char const *);

54 extern int (*abi_thr_main)(void);
55 extern thread_t (*abi_thr_self)(void);
56 extern int (*abi_sigsetmask)(int, const sigset_t *, sigset_t *);
57 extern int (*abi_sigaction)(int, const struct sigaction *, struct sigaction *);
```

new/usr/src/head/apprtrace\_impl.h

2

```
58 extern int (*abi_mutex_lock)(mutex_t *);
59 extern int (*abi_mutex_unlock)(mutex_t *);

63 #else /* __STDC__ */

65 extern void abilock();
66 extern void abiunlock();
67 extern int     is_empty_string();
68 extern int (*abi_thr_main)();
69 extern thread_t (*abi_thr_self)();
70 extern int (*abi_sigsetmask)();
71 extern int (*abi_sigaction)();
72 extern int (*abi_mutex_lock)();
73 extern int (*abi_mutex_unlock)();

75 #endif /* __STDC__ */

61 #ifdef __cplusplus
62 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/arpa/inet.h

1

```
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3194 Sat Aug 2 23:27:02 2014
new/usr/src/head/arpa/inet.h
remove support for non-ANSI compilation
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26 * Copyright 2011 Nexenta Systems, Inc. All rights reserved.
27 */
29 /*      Copyright (c) 1983, 1984, 1985, 1986, 1987, 1988, 1989 AT&T      */
30 /*      All Rights Reserved      */
32 /*
33  * Portions of this source code were derived from Berkeley 4.3 BSD
34  * under license from the Regents of the University of California.
35  */
37 #ifndef _ARPA_INET_H
38 #define _ARPA_INET_H
40 #include <sys/feature_tests.h>
42 #if !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__)
43 #include <sys/socket.h>
44 #endif /* !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__) */
46 #include <netinet/in.h>
47 #if defined(_XPG4_2) && !defined(__EXTENSIONS__)
48 #include <sys/byteorder.h>
49 #endif /* defined(_XPG4_2) && !defined(__EXTENSIONS__) */
51 #ifdef __cplusplus
52 extern "C" {
53 #endif
55 /*
56  * External definitions for
57  * functions in inet(3N)
58  */
57 #ifdef __STDC__
59 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
60 extern int inet_net_pton(int, const char *, void *, size_t);
```

new/usr/src/head/arpa/inet.h

2

```
61 extern boolean_t inet_matchaddr(const void *, const char *);
62 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */
64 #if !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__)
65 extern int inet_pton(int, const char *_RESTRICT_KYWD, void *_RESTRICT_KYWD);
66 extern const char *inet_ntop(int, const void *_RESTRICT_KYWD,
67                               char *_RESTRICT_KYWD, socklen_t);
68 #endif /* !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__) */
70 extern in_addr_t inet_addr(const char *);
71 /*
72  * With the introduction of CIDR the
73  * following 4 routines are now considered to be Obsolete
74  */
75 extern in_addr_t inet_lnaof(struct in_addr);
76 extern struct in_addr inet_makeaddr(in_addr_t, in_addr_t);
77 extern in_addr_t inet_netof(struct in_addr);
78 extern in_addr_t inet_network(const char *);
81 extern char *inet_neta(ulong_t, char *, size_t);
82 extern char *inet_net_ntop(int, const void *, int, char *, size_t);
84 extern char *inet_cidr_ntop(int, const void *, int, char *, size_t);
85 extern int inet_cidr_pton(int, const char *, void *, int *);
86 extern char *inet_ntoa(struct in_addr);
87 extern int inet_aton(const char *, struct in_addr *);
89 extern uint_t inet_nsap_addr(const char *, uchar_t *, int);
90 extern char *inet_nsap_ntoa(int, const uchar_t *, char *);
91 #else
92 unsigned long inet_addr();
93 char *inet_ntoa();
94 /*
95  * With the introduction of CIDR the
96  * following 4 routines are now considered to be Obsolete
97  */
98 struct in_addr inet_makeaddr();
99 unsigned long inet_network();
100 extern unsigned long inet_lnaof();
101 extern unsigned long inet_netof();
103 extern int inet_pton();
104 extern const char *inet_ntop();
105 extern int inet_aton();
107 #endif
92 #ifdef __cplusplus
93 }
    unchanged_portion_omitted
```

new/usr/src/head/assert.h

1

```
*****
2027 Sat Aug 2 23:27:03 2014
new/usr/src/head/assert.h
remove support for non-ANSI compilation
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30 */

32 #ifndef _ASSERT_H
33 #define _ASSERT_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.6.1.4 */

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

40 #if defined(__STDC__)
39 #if __STDC_VERSION__ - 0 >= 199901L
40 extern void __assert_c99(const char *, const char *, int, const char *);
41 #else
42 extern void __assert(const char *, const char *, int);
43 #endif /* __STDC_VERSION__ - 0 >= 199901L */
44 #else
46 #else
47 extern void _assert();
48 #endif

45 #ifdef __cplusplus
46 }
47 #endif

49 #endif /* _ASSERT_H */

51 /*
52 * Note that the ANSI C Standard requires all headers to be idempotent except
53 * <assert.h> which is explicitly required not to be idempotent (section 4.1.2).
54 * Therefore, it is by intent that the header guards (#ifndef _ASSERT_H) do
```

new/usr/src/head/assert.h

2

```
55 * not span this entire file.
56 */

58 #undef  assert

60 #ifdef  NDEBUG

62 #define assert(EX) ((void)0)

64 #else

71 #if defined(__STDC__)
66 #if __STDC_VERSION__ - 0 >= 199901L
67 #define assert(EX) (void)((EX) || \
68      (__assert_c99(#EX, __FILE__, __LINE__, __func__), 0))
69 #else
70 #define assert(EX) (void)((EX) || (__assert(#EX, __FILE__, __LINE__), 0))
71 #endif /* __STDC_VERSION__ - 0 >= 199901L */
72 #else
73 #define assert(EX) (void)((EX) || (__assert("EX", __FILE__, __LINE__), 0))
74 #endif /* __STDC__ */

73 #endif /* NDEBUG */
```

new/usr/src/head/attr.h

1

```
*****
1419 Sat Aug  2 23:27:03 2014
new/usr/src/head/attr.h
remove support for non-ANSI compilation
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26  */

28 #ifndef _ATTR_H
29 #define _ATTR_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.6.1.7 */

31 #include <sys/types.h>
32 #include <sys/nvpair.h>
33 #include <sys/attr.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 #if defined(__STDC__)

39 extern int getattrat(int, xattr_view_t, const char *, nvlist_t **);
40 extern int fgetattr(int, xattr_view_t, nvlist_t **);
41 extern int setattrat(int, xattr_view_t, const char *, nvlist_t *);
42 extern int fsetattr(int, xattr_view_t, nvlist_t *);

46 #else /* defined(__STDC__) */

48 extern int getattrat();
49 extern int fgetattr();
50 extern int setattrat();
51 extern int fsetattr();

53 #endif /* defined(__STDC__) */

44 #ifdef __cplusplus
45 }
46 #endif

48 #endif /* _ATTR_H */
```

new/usr/src/head/auth\_attr.h

1

```
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3008 Sat Aug 2 23:27:03 2014
new/usr/src/head/auth_attr.h
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25  */

27 #ifndef _AUTH_ATTR_H
28 #define _AUTH_ATTR_H

29 #pragma ident "%Z%M% %I% %E% SMI"

30 #ifdef __cplusplus
31 extern "C" {
32 #endif

34 #include <sys/types.h>
35 #include <secdb.h>

37 /*
38  * Some macros used internally by the nsswitch code
39  */
40 #define AUTH_MMAPLEN 1024
41 #define AUTH_POLICY "/etc/security/policy.conf"
42 #define DEF_AUTH "AUTHS_GRANTED="
43 #define AUTHATTR_FILENAME "/etc/security/auth_attr"
44 #define AUTHATTR_DB_NAME "auth_attr.org_dir"
45 #define AUTHATTR_DB_NCOL 6 /* total columns */
46 #define AUTHATTR_DB_NKEYCOL 1 /* total searchable columns */
47 #define AUTHATTR_DB_TBLT "auth_attr_tbl"
48 #define AUTHATTR_NAME_DEFAULT_KW "nobody"

50 #define AUTHATTR_COL0_KW "name"
51 #define AUTHATTR_COL1_KW "res1"
52 #define AUTHATTR_COL2_KW "res2"
53 #define AUTHATTR_COL3_KW "short_desc"
54 #define AUTHATTR_COL4_KW "long_desc"
55 #define AUTHATTR_COL5_KW "attr"

57 /*
58  * indices of searchable columns
59  */
```

new/usr/src/head/auth\_attr.h

2

```
60 #define AUTHATTR_KEYCOL0 0 /* name */

63 /*
64  * Key words used in the auth_attr database
65  */
66 #define AUTHATTR_HELP_KW "help"

68 /*
69  * Nsswitch internal representation of authorization attributes.
70  */
71 typedef struct authstr_s {
72     char *name; /* authorization name */
73     char *res1; /* reserved for future use */
74     char *res2; /* reserved for future use */
75     char *short_desc; /* short description */
76     char *long_desc; /* long description */
77     char *attr; /* string of key-value pair attributes */
78 } authstr_t;
    unchanged_portion_omitted_

93 #ifdef __STDC__
92 extern authattr_t *getauthnam(const char *);
93 extern authattr_t *getauthattr(void);
94 extern void setauthattr(void);
95 extern void endauthattr(void);
96 extern void free_authattr(authattr_t *);
97 extern int chkauthattr(const char *, const char *);

101 #else /* not __STDC__ */

103 extern authattr_t *getauthnam();
104 extern authattr_t *getauthattr();
105 extern void setauthattr();
106 extern void endauthattr();
107 extern void free_authattr();
108 extern int chkauthattr();
109 #endif

99 #ifdef __cplusplus
100 }
    unchanged_portion_omitted_
```



new/usr/src/head/config\_admin.h

1

```
*****
7243 Sat Aug 2 23:27:03 2014
new/usr/src/head/config_admin.h
remove support for non-ANSI compilation
*****
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23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
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26  * Use is subject to license terms.
27  */

29 #ifndef _SYS_CONFIG_ADMIN_H
30 #define _SYS_CONFIG_ADMIN_H

30 #pragma ident "%Z%M% %I% %E% SMI"

32 /*
33  * config_admin.h
34  *
35  * this file supports usage of the interfaces defined in
36  * config_admin.3x. which are contained in /usr/lib/libcfgadm.so.1
37  */

39 #include <sys/param.h>

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

46 /*
47  * Defined constants
48  */
49 #define CFGA_AP_LOG_ID_LEN 20
50 #define CFGA_AP_PHYS_ID_LEN MAXPATHLEN
51 #define CFGA_INFO_LEN 4096
52 #define CFGA_TYPE_LEN 12

54 #define CFGA_CLASS_LEN 12
55 #define CFGA_LOG_EXT_LEN 30

57 #define CFGA_DYN_SEP ":"
58 #define CFGA_PHYS_EXT_LEN (CFGA_AP_PHYS_ID_LEN + CFGA_LOG_EXT_LEN)
```

new/usr/src/head/config\_admin.h

2

```
61 /*
62  * Configuration change state commands
63  */
64 typedef enum {
65     CFGA_CMD_NONE = 0,
66     CFGA_CMD_LOAD,
67     CFGA_CMD_UNLOAD,
68     CFGA_CMD_CONNECT,
69     CFGA_CMD_DISCONNECT,
70     CFGA_CMD_CONFIGURE,
71     CFGA_CMD_UNCONFIGURE
72 } cfga_cmd_t;
unchanged_portion_omitted

179 #if defined(__STDC__)

179 /*
180  * config_admin.3x library interfaces
181  */

183 cfga_err_t config_change_state(cfga_cmd_t state_change_cmd, int num_ap_ids,
184     char *const *ap_ids, const char *options, struct cfga_confirm *confp,
185     struct cfga_msg *msgp, char **errstring, cfga_flags_t flags);

187 cfga_err_t config_private_func(const char *function, int num_ap_ids,
188     char *const *ap_ids, const char *options, struct cfga_confirm *confp,
189     struct cfga_msg *msgp, char **errstring, cfga_flags_t flags);

191 cfga_err_t config_test(int num_ap_ids, char *const *ap_ids,
192     const char *options, struct cfga_msg *msgp, char **errstring,
193     cfga_flags_t flags);

195 cfga_err_t config_list_ext(int num_ap_ids, char *const *ap_ids,
196     struct cfga_list_data **ap_id_list, int *nlist, const char *options,
197     const char *listopts, char **errstring, cfga_flags_t flags);

199 cfga_err_t config_help(int num_ap_ids, char *const *ap_ids,
200     struct cfga_msg *msgp, const char *options, cfga_flags_t flags);

202 const char *config_strerror(cfga_err_t cfgernum);

204 int config_ap_id_cmp(const cfga_ap_log_id_t ap_id1,
205     const cfga_ap_log_id_t ap_id2);

207 void config_unload_libs();

209 /*
210  * The following two routines are retained only for backward compatibility
211  */
212 cfga_err_t config_stat(int num_ap_ids, char *const *ap_ids,
213     struct cfga_stat_data *buf, const char *options, char **errstring);

215 cfga_err_t config_list(struct cfga_stat_data **ap_id_list, int *nlist,
216     const char *options, char **errstring);

219 #ifdef CFGA_PLUGIN_LIB
220 /*
221  * Plugin library routine hooks - only to be used by the generic
222  * library and plugin libraries (who must define CFGA_PLUGIN_LIB
223  * prior to the inclusion of this header).
224  */

226 cfga_err_t cfga_change_state(cfga_cmd_t, const char *, const char *,
```

```
227 struct cfga_confirm *, struct cfga_msg *, char **, cfga_flags_t);
228 cfga_err_t cfga_private_func(const char *, const char *, const char *,
229 struct cfga_confirm *, struct cfga_msg *, char **, cfga_flags_t);
230 cfga_err_t cfga_test(const char *, const char *, struct cfga_msg *,
231 char **, cfga_flags_t);
232 cfga_err_t cfga_list_ext(const char *, struct cfga_list_data **, int *,
233 const char *, const char *, char **, cfga_flags_t);
234 cfga_err_t cfga_help(struct cfga_msg *, const char *, cfga_flags_t);
235 int cfga_ap_id_cmp(const cfga_ap_log_id_t,
236 const cfga_ap_log_id_t);

239 /*
240 * Plugin version information.
241 */
242 #define CFGA_HSL_V1 1
243 #define CFGA_HSL_V2 2
244 #define CFGA_HSL_VERS CFGA_HSL_V2

246 /*
247 * The following two routines are retained only for backward compatibility.
248 */
249 cfga_err_t cfga_stat(const char *, struct cfga_stat_data *,
250 const char *, char **);
251 cfga_err_t cfga_list(const char *, struct cfga_stat_data **, int *,
252 const char *, char **);

255 #endif /* CFGA_PLUGIN_LIB */

259 #else /* !defined __STDC__ */

261 extern const char *config_strerror();
262 extern int config_ap_id_cmp();

264 #endif /* __STDC__ */

257 #ifdef __cplusplus
258 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/crypt.h

1

```
*****
1912 Sat Aug  2 23:27:03 2014
new/usr/src/head/crypt.h
remove support for non-ANSI compilation
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28 /*      Copyright (c) 1988 AT&T */
29 /*      All Rights Reserved      */

32 #ifndef _CRYPT_H
33 #define _CRYPT_H

33 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.1 */

35 #include <pwd.h>

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 /* Password and file encryption functions */

43 #define CRYPT_MAXCIPHERTEXTLEN  512

45 #if defined(__STDC__)
45 extern char *crypt(const char *, const char *);
46 extern char *crypt_gensalt(const char *, const struct passwd *);
47 extern char *crypt_genhash_impl(char *, size_t, const char *,
48     const char *, const char **);
49 extern char *crypt_gensalt_impl(char *, size_t, const char *,
50     const struct passwd *, const char **);
51 extern int crypt_close(int *);
52 extern char *des_crypt(const char *, const char *);
53 extern void des_encrypt(char *, int);
54 extern void des_setkey(const char *);
55 extern void encrypt(char *, int);
56 extern int run_crypt(long, char *, unsigned, int *);
57 extern int run_setkey(int *, const char *);
58 extern void setkey(const char *);
```

new/usr/src/head/crypt.h

2

```
60 #else
61 extern char *crypt();
62 extern char *crypt_gensalt();
63 extern char *crypt_genhash_impl();
64 extern char *crypt_gensalt_impl();
65 extern int crypt_close();
66 extern char *des_crypt();
67 extern void des_encrypt();
68 extern void des_setkey();
69 extern void encrypt();
70 extern int run_crypt();
71 extern int run_setkey();
72 extern void setkey();
73 #endif

60 #ifdef __cplusplus
61 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/ctype.h

1

```
*****
3021 Sat Aug 2 23:27:03 2014
new/usr/src/head/ctype.h
remove support for non-ANSI compilation
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30 * Use is subject to license terms.
31 */
30 /*
31 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
32 */

33 #ifndef _CTYPE_H
34 #define _CTYPE_H

36 #include <iso/ctype_iso.h>

38 /*
39 * Allow global visibility for symbols defined in
40 * C++ "std" namespace in <iso/ctype_iso.h>.
41 */
42 #if __cplusplus >= 199711L
43 using std::isalnum;
44 using std::isalpha;
45 using std::iscntrl;
46 using std::isdigit;
47 using std::isgraph;
48 using std::islower;
49 using std::isprint;
50 using std::ispunct;
51 using std::isspace;
52 using std::isupper;
53 using std::isxdigit;
54 using std::tolower;
55 using std::toupper;
56 #if __cplusplus >= 201103L
57 using std::isblank;
58 #endif
```

new/usr/src/head/ctype.h

2

```
59 #endif

61 #ifdef __cplusplus
62 extern "C" {
63 #endif

66 #if defined(__STDC__)

65 #if defined(__EXTENSIONS__) || \
66     ((!defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) || \
67     defined(_XOPEN_SOURCE))

69 extern int isascii(int);
70 extern int toascii(int);
71 extern int _tolower(int);
72 extern int _toupper(int);

74 #endif /* defined(__EXTENSIONS__) || ((!defined(_STRICT_STDC) ... */

76 #if !defined(__lint)

78 #if defined(__EXTENSIONS__) || \
79     ((!defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) || \
80     defined(_XOPEN_SOURCE)) || defined(_XPG4_CHAR_CLASS)
81 #define isascii(c)      (!(((int)(c)) & ~0177))
82 #define toascii(c)     (((int)(c)) & 0177)
83 #define _toupper(c)    (toupper(c))
84 #define _tolower(c)    (tolower(c))

86 #endif /* defined(__EXTENSIONS__) || ((!defined(_STRICT_STDC) ... */

88 #endif /* !defined(__lint) */

90 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)

92 #ifndef _LOCALE_T
93 #define _LOCALE_T
94 typedef struct _locale *locale_t;
95 #endif

97 extern int isalnum_l(int, locale_t);
98 extern int isalpha_l(int, locale_t);
99 extern int isblank_l(int, locale_t);
100 extern int iscntrl_l(int, locale_t);
101 extern int isdigit_l(int, locale_t);
102 extern int isgraph_l(int, locale_t);
103 extern int islower_l(int, locale_t);
104 extern int isprint_l(int, locale_t);
105 extern int ispunct_l(int, locale_t);
106 extern int isspace_l(int, locale_t);
107 extern int isupper_l(int, locale_t);
108 extern int isxdigit_l(int, locale_t);

110 #endif /* defined(_XPG7) || !defined(_STRICT_SYMBOLS) */

115 #else /* defined(__STDC__) */

117 #if !defined(__lint)

119 #define isascii(c)      (((int)(c)) & ~0177)
120 #define _toupper(c)    (isascii(c) ? __trans_upper[(int)(c)] : toupper(c))
121 #define _tolower(c)    (isascii(c) ? __trans_lower[(int)(c)] : tolower(c))
122 #define toascii(c)     (((int)(c)) & 0177)

124 #endif /* !defined(__lint) */
```

new/usr/src/head/ctype.h

3

```
126 #endif /* defined(__STDC__) */
```

```
112 #ifdef __cplusplus
```

```
113 }
```

```
_____unchanged_portion_omitted_
```

new/usr/src/head/default.h

1

```
*****
2440 Sat Aug 2 23:27:03 2014
new/usr/src/head/default.h
remove support for non-ANSI compilation
*****
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28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved */

31 /*      Copyright (c) 1987, 1988 Microsoft Corporation */
32 /*      All Rights Reserved */

34 #ifndef _DEFAULT_H
35 #define _DEFAULT_H

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 #define DEFAULT "/etc/default"

43 /*
44  * Following for defctl(3).
45  * If you add new args, make sure that the default is:
46  *   OFF      new-improved-feature-off, i.e. current state of affairs
47  *   ON       new-improved-feature-on
48  * or that you change the code for defctl(3) to have the old value as the
49  * default. (for compatibility).
50 */

52 /* ... cmds */
53 #define DC_GETFLAGS 0 /* get current flags */
54 #define DC_SETFLAGS 1 /* set flags */

56 /* ... args */
57 #define DC_CASE 0001 /* ON: respect case; OFF: ignore case */
58 #define DC_NOREWIND 0002 /* ON: don't rewind in defread */
59 /* OFF: do rewind in defread */
60 #define DC_STRIP_QUOTES 0004 /* ON: strip quotes; OFF: leave quotes */
```

new/usr/src/head/default.h

2

```
62 #define DC_STD ((0) | (DC_CASE))

62 #ifdef __STDC__
64 extern int defctl(int, int);
65 extern int defopen(char *);
66 extern char *defread(char *);

68 extern int defctl_r(int, int, void *);
69 extern void *defopen_r(const char *);
70 extern char *defread_r(const char *, void *);
71 extern void defclose_r(void *);
72 #else
72 extern int defctl();
73 extern int defopen();
74 extern char *defread();

76 extern int defctl_r();
77 extern void *defopen_r();
78 extern char *defread_r();
79 extern void defclose_r();
80 #endif

73 #define TURNON(flags, mask) ((flags) |= (mask))
74 #define TURNOFF(flags, mask) ((flags) &= ~(mask))
75 #define ISON(flags, mask) (((flags) & (mask)) == (mask))
76 #define ISOFF(flags, mask) (((flags) & (mask)) != (mask))

78 #ifdef __cplusplus
79 }

```

---

unchanged portion omitted

new/usr/src/head/dial.h

1

```
*****
2752 Sat Aug 2 23:27:03 2014
new/usr/src/head/dial.h
remove support for non-ANSI compilation
*****
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22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */

28 #ifndef _DIAL_H
29 #define _DIAL_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.2 */

31 #ifndef IUCLC
32 #include <sys/termio.h>
33 #endif

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 /* uucico routines need these */
40 #define DIAL

42 /* The following are no longer used by dial() and may be out of date. */
43 /* They are included here only to maintain source compatibility. */
44 #define STANDALONE
45 #define DEVDIR      "/dev/"      /* device path */
46 #define LOCK      "/usr/spool/uucp/LCK.."      /* lock file semaphore */
47 #define DVC_LEN 80      /* max NO of chars in TTY-device path name */
48 /* End of unused definitions */

50      /* error mnemonics */

52 #define TRUE      1
53 #define FALSE      0
54 #define INTRPT      (-1)      /* interrupt occured */
55 #define D_HUNG      (-2)      /* dialer hung (no return from write) */
56 #define NO_ANS      (-3)      /* no answer (caller script failed) */
57 #define ILL_BD      (-4)      /* illegal baud-rate */
58 #define A_PROB      (-5)      /* acu problem (open() failure) */
```

new/usr/src/head/dial.h

2

```
59 #define L_PROB      (-6)      /* line problem (open() failure) */
60 #define NO_Ldv      (-7)      /* can't open Devices file */
61 #define DV_NT_A      (-8)      /* requested device not available */
62 #define DV_NT_K      (-9)      /* requested device not known */
63 #define NO_BD_A      (-10)     /* no device available at requested baud */
64 #define NO_BD_K      (-11)     /* no device known at requested baud */
65 #define DV_NT_E      (-12)     /* requested speed does not match */
66 #define BAD_SYS      (-13)     /* system not in Systems file */

68 typedef struct {
69     struct termio *attr;      /* ptr to termio attribute struct */
70     int      baud;      /* unused */
71     int      speed;      /* 212A modem: low=300, high=1200 */
72     char      *line;      /* device name for out-going line */
73     char      *telno;      /* ptr to tel-no/system name string */
74     int      modem;      /* unused */
75     char      *device;      /* unused */
76     int      dev_len;      /* unused */
77 } CALL;

79 #if defined(__STDC__)

79 extern int dial(CALL);
80 extern void undial(int);

84 #else

86 extern int dial();
87 extern void undial();

89 #endif

82 #ifdef __cplusplus
83 }
      unchanged_portion_omitted
```

new/usr/src/head/dirent.h

1

```
*****
7128 Sat Aug 2 23:27:04 2014
new/usr/src/head/dirent.h
remove support for non-ANSI compilation
*****
1 /*
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29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved */
32 #ifndef _DIRENT_H
33 #define _DIRENT_H
33 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.6.1.5 */
35 #include <sys/feature_tests.h>
37 #include <sys/types.h>
38 #include <sys/dirent.h>
40 #ifdef __cplusplus
41 extern "C" {
42 #endif
44 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
46 #define MAXNAMLEN      512      /* maximum filename length */
47 #define DIRBUF      8192      /* buffer size for fs-indep. dirs */
49 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) */
51 #if !defined(__XOPEN_OR_POSIX)
53 typedef struct {
54     int      dd_fd;      /* file descriptor */
55     int      dd_loc;      /* offset in block */
56     int      dd_size;      /* amount of valid data */
57     char      *dd_buf;      /* directory block */
58 } DIR;      /* stream data from opendir() */
unchanged_portion_omitted
```

new/usr/src/head/dirent.h

2

```
70 #endif /* !defined(__XOPEN_OR_POSIX) */
72 #if defined(__STDC__)
72 /* large file compilation environment setup */
73 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
74 #ifdef __PRAGMA_REDEFINE_EXTNAME
75 #pragma redefine_extname      readdir readdir64
76 #pragma redefine_extname      scandir scandir64
77 #pragma redefine_extname      alphasort alphasort64
78 #else
79 #define readdir      readdir64
80 #define scandir      scandir64
81 #define alphasort      alphasort64
82 #endif
83 #endif /* _FILE_OFFSET_BITS == 64 */
85 /* In the LP64 compilation environment, all APIs are already large file */
86 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
87 #ifdef __PRAGMA_REDEFINE_EXTNAME
88 #pragma redefine_extname      readdir64      readdir
89 #pragma redefine_extname      scandir64      scandir
90 #pragma redefine_extname      alphasort64      alphasort
91 #else
92 #define readdir64      readdir
93 #define scandir64      scandir
94 #define alphasort64      alphasort
95 #endif
96 #endif /* _LP64 && _LARGEFILE64_SOURCE */
98 extern DIR      *opendir(const char *);
99 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
100     defined(_ATFILE_SOURCE)
101 extern DIR      *fdopendir(int);
102 extern int      dirfd(DIR *);
103 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
104 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
105 extern int      scandir(const char *, struct dirent *([]),
106     int (*)(const struct dirent *),
107     int (*)(const struct dirent **),
108     const struct dirent **);
109 extern int      alphasort(const struct dirent **,
110     const struct dirent **);
111 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) */
112 extern struct dirent      *readdir(DIR *);
113 #if defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) || \
114     defined(_XOPEN_SOURCE)
115 extern long      telldir(DIR *);
116 extern void      seekdir(DIR *, long);
117 #endif /* defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) ... */
118 extern void      rewinddir(DIR *);
119 extern int      closedir(DIR *);
121 /* transitional large file interface */
122 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
123     !defined(__PRAGMA_REDEFINE_EXTNAME))
124 extern struct dirent64      *readdir64(DIR *);
125 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
126 extern int      scandir64(const char *, struct dirent64 *([]),
127     int (*)(const struct dirent64 *),
128     int (*)(const struct dirent64 **),
129     const struct dirent64 **);
130 extern int      alphasort64(const struct dirent64 **, const struct dirent64 **);
131 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) */
132 #endif
```



```

136 #else

138 extern DIR          *opendir();
139 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
140     defined(_ATFILE_SOURCE)
141 extern DIR          *fdopendir();
142 extern int          dirfd();
143 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
144 extern struct dirent *readdir();
145 #if defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) || \
146     defined(_XOPEN_SOURCE)
147 extern long         telldir();
148 extern void         seekdir();
149 #endif /* defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) ... */
150 extern void         rewinddir();
151 extern int          closedir();

153 /* transitional large file interface */
154 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
155     !defined(__PRAGMA_REDEFINE_EXTNAME))
156 extern struct dirent64 *readdir64();
157 #endif

159 #endif

161 #if defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) || \
162     defined(_XOPEN_SOURCE)
136 #define rewinddir(dirp) seekdir(dirp, 0L)
137 #endif

139 /*
140  * readdir_r() prototype is defined here.
141  *
142  * There are several variations, depending on whether compatibility with old
143  * POSIX draft specifications or the final specification is desired and on
144  * whether the large file compilation environment is active. To combat a
145  * combinatorial explosion, enabling large files implies using the final
146  * specification (since the definition of the large file environment
147  * considerably postdates that of the final readdir_r specification).
148  *
149  * In the LP64 compilation environment, all APIs are already large file,
150  * and since there are no 64-bit applications that can have seen the
151  * draft implementation, again, we use the final POSIX specification.
152  */

154 #if defined(__EXTENSIONS__) || defined(_REENTRANT) || \
155     !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE - 0 >= 199506L) || \
156     defined(_POSIX_THREAD_SEMANTICS)

185 #if defined(__STDC__)

158 #if !defined(_LP64) && _FILE_OFFSET_BITS == 32

160 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_THREAD_SEMANTICS)

162 #ifdef __PRAGMA_REDEFINE_EXTNAME
163 #pragma redefine_extname readdir_r __posix_readdir_r
164 extern int readdir_r(DIR *RESTRICT_KYWD, struct dirent *RESTRICT_KYWD,
165     struct dirent **RESTRICT_KYWD);
166 #else /* __PRAGMA_REDEFINE_EXTNAME */

168 extern int __posix_readdir_r(DIR *RESTRICT_KYWD,
169     struct dirent *RESTRICT_KYWD, struct dirent **RESTRICT_KYWD);

171 #ifndef __lint

```

```

172 #define readdir_r          __posix_readdir_r
173 #else /* !__lint */

175 static int
176 readdir_r(DIR *RESTRICT_KYWD __dp, struct dirent *RESTRICT_KYWD __ent,
177     struct dirent **RESTRICT_KYWD __res) {
178     return (__posix_readdir_r(__dp, __ent, __res));
179 }

181 #ifndef __lint */
182 #endif /* __PRAGMA_REDEFINE_EXTNAME */

184 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

186 extern struct dirent *readdir_r(DIR *__dp, struct dirent *__ent);

188 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

190 #else /* !_LP64 && _FILE_OFFSET_BITS == 32 */

192 #if defined(_LP64)
193 #ifdef __PRAGMA_REDEFINE_EXTNAME
194 #pragma redefine_extname readdir64_r readdir_r
195 #else
196 #define readdir64_r          readdir_r
197 #endif
198 #else /* _LP64 */
199 #ifdef __PRAGMA_REDEFINE_EXTNAME
200 #pragma redefine_extname readdir_r readdir64_r
201 #else
202 #define readdir_r          readdir64_r
203 #endif
204 #endif /* _LP64 */
205 extern int readdir_r(DIR *RESTRICT_KYWD, struct dirent *RESTRICT_KYWD,
206     struct dirent **RESTRICT_KYWD);

208 #endif /* !_LP64 && _FILE_OFFSET_BITS == 32 */

210 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
211     !defined(__PRAGMA_REDEFINE_EXTNAME))
212 /* transitional large file interface */
213 extern int readdir64_r(DIR *RESTRICT_KYWD, struct dirent64 *RESTRICT_KYWD,
214     struct dirent64 **RESTRICT_KYWD);
215 #endif

246 #else /* __STDC__ */

248 #if !defined(_LP64) && _FILE_OFFSET_BITS == 32

250 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_THREAD_SEMANTICS)

252 #ifdef __PRAGMA_REDEFINE_EXTNAME
253 #pragma redefine_extname readdir_r __posix_readdir_r
254 extern int readdir_r();
255 #else /* __PRAGMA_REDEFINE_EXTNAME */

257 extern int __posix_readdir_r();

259 #ifdef __lint
260 #define readdir_r __posix_readdir_r
261 #else /* !__lint */

263 static int
264 readdir_r(DIR *RESTRICT_KYWD __dp, struct dirent *RESTRICT_KYWD __ent,
265     struct dirent **RESTRICT_KYWD __res)
266 {

```

```
267     return (__posix_readdir_r(__dp, __ent, __res));
268 }

270 #endif /* !_lint */
271 #endif /* __PRAGMA_REDEFINE_EXTNAME */

273 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

275 extern struct dirent *readdir_r();

277 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

279 #else /* !_LP64 && _FILE_OFFSET_BITS == 32 */

281 #if defined(_LP64)
282 #ifdef __PRAGMA_REDEFINE_EXTNAME
283 #pragma redefine_extname readdir64_r  readdir_r
284 #else
285 #define readdir64_r  readdir
286 #endif
287 #else /* !_LP64 */
288 #ifdef __PRAGMA_REDEFINE_EXTNAME
289 #pragma redefine_extname readdir_r readdir64_r
290 #else
291 #define readdir_r readdir64_r
292 #endif
293 #endif /* !_LP64 */
294 extern int  readdir_r();

296 #endif /* !_LP64 && _FILE_OFFSET_BITS == 32 */

298 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
299     !defined(__PRAGMA_REDEFINE_EXTNAME))
300 /* transitional large file interface */
301 extern int  readdir64_r();
302 #endif

304 #endif /* __STDC__ */

217 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT)... */

219 #ifdef __cplusplus
220 }
_____unchanged_portion_omitted_____
```

```

*****
      8259 Sat Aug  2 23:27:04 2014
new/usr/src/head/dlfcn.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 *
25 *      Copyright (c) 1989 AT&T
26 *      All Rights Reserved
27 *
28 */

30 #ifndef _DLFCN_H
31 #define _DLFCN_H

33 #include <sys/feature_tests.h>
34 #include <sys/types.h>
35 #if !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
36 #include <sys/auxv.h>
37 #include <sys/mman.h>
38 #endif /* !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__) */

40 #ifdef __cplusplus
41 extern "C" {
42 #endif

44 /*
45  * Information structures for various dlinfo() requests.
46  */
47 #if !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
48 #ifdef __STDC__
49 typedef struct dl_info {
50     const char    *dli_fname;    /* file containing address range */
51     void          *dli_fbase;    /* base address of file image */
52     const char    *dli_sname;    /* symbol name */
53     void          *dli_saddr;    /* symbol address */
54 } Dl_info;
55 #else
56 typedef struct dl_info {
57     char          *dli_fname;
58     void          *dli_fbase;
59     char          *dli_sname;
60     void          *dli_saddr;
61 } Dl_info;

```

```

61 #endif /* __STDC__ */
62 typedef Dl_info      Dl_info_t;

64 typedef struct dl_serpath {
65     char            *dls_name;    /* library search path name */
66     uint_t          dls_flags;    /* path information */
67 } Dl_serpath;
68 #endif /* !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__) */

69 #ifdef __STDC__
70 #define dl_serpath_t Dl_serpath
71 #endif

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519 #ifdef __STDC__
520 #define dl_serpath_t Dl_serpath
521 #endif

522 #ifdef __STDC__
523 #define dl_serpath_t Dl_serpath
524 #endif

525 #ifdef __STDC__
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617 #endif

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620 #endif

621 #ifdef __STDC__
622 #define dl_serpath_t Dl_serpath
623 #endif

624 #ifdef __STDC__
625 #define dl_serpath_t Dl_serpath
626 #endif

627 #ifdef __STDC__
628 #define dl_serpath_t Dl_serpath
629 #endif

630 #ifdef __STDC__
631 #define dl_serpath_t Dl_serpath
632 #endif

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635 #endif

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668 #endif

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671 #endif

672 #ifdef __STDC__
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674 #endif

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677 #endif

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680 #endif

681 #ifdef __STDC__
682 #define dl_serpath_t Dl_serpath
683 #endif

684 #ifdef __STDC__
685 #define dl_serpath_t Dl_serpath
686 #endif

687 #ifdef __STDC__
688 #define dl_serpath_t Dl_serpath
689 #endif

689 #endif

104 typedef ulong_t      Lmid_t;

106 /*
107  * Declarations used for dynamic linking support routines.
108  */
109 #ifdef __STDC__
110 #define dl_serpath_t Dl_serpath
111 #endif

112 #ifdef __STDC__
113 #define dl_serpath_t Dl_serpath
114 #endif

115 #ifdef __STDC__
116 #define dl_serpath_t Dl_serpath
117 #endif

118 #ifdef __STDC__
119 #define dl_serpath_t Dl_serpath
120 #endif

121 #ifdef __STDC__
122 #define dl_serpath_t Dl_serpath
123 #endif

124 #ifdef __STDC__
125 #define dl_serpath_t Dl_serpath
126 #endif

127 #ifdef __STDC__
128 #define dl_serpath_t Dl_serpath
129 #endif

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138 #endif

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141 #endif

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177 #endif

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180 #endif

181 #ifdef __STDC__
182 #define dl_serpath_t Dl_serpath
183 #endif

184 #ifdef __STDC__
185 #define dl_serpath_t Dl_serpath
186 #endif

187 #ifdef __STDC__
188 #define dl_serpath_t Dl_serpath
189 #endif

189 #endif

122 #pragma unknown_control_flow(dlopen, dlsym, dlclose, dlerror)
123 #if !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
124 #pragma unknown_control_flow(dlmopen, dladdr, dladdr1, dldump, dlinfo)
125 #endif /* !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__) */

127 /*
128  * Valid values for handle argument to dlsym(3x).
129  */
130 #define RTLD_NEXT          (void *)-1    /* look in 'next' dependency */
131 #define RTLD_DEFAULT      (void *)-2    /* look up symbol from scope */
132 #define RTLD_SELF        (void *)-3    /* look in 'ourselves' */
133 #define RTLD_PROBE       (void *)-4    /* look up symbol from scope */
134 #define RTLD_LAZY        0x00001      /* deferred function binding */
135 #define RTLD_NOW         0x00002      /* immediate function binding */

```

```

143 #define RTLD_NOLOAD          0x00004    /* don't load object */
144
145 #define RTLD_GLOBAL          0x00100    /* export symbols to others */
146 #define RTLD_LOCAL          0x00000    /* symbols are only available */
147                                     /* to group members */
148 #define RTLD_PARENT          0x00200    /* add parent (caller) to */
149                                     /* a group dependencies */
150 #define RTLD_GROUP          0x00400    /* resolve symbols within */
151                                     /* members of the group */
152 #define RTLD_WORLD          0x00800    /* resolve symbols within */
153                                     /* global objects */
154 #define RTLD_NODELETE        0x01000    /* do not remove members */
155 #define RTLD_FIRST          0x02000    /* only first object is */
156                                     /* available for dlsym */
157 #define RTLD_CONFGEN        0x10000    /* crle(1) config generation */
158                                     /* internal use only */
159
160 /*
161  * Valid values for flag argument to dldump.
162  */
163 #define RTLD_REL_RELATIVE    0x00001    /* apply relative relocs */
164 #define RTLD_REL_EXEC        0x00002    /* apply symbolic relocs that */
165                                     /* bind to main */
166 #define RTLD_REL_DEPENDS    0x00004    /* apply symbolic relocs that */
167                                     /* bind to dependencies */
168 #define RTLD_REL_PRELOAD    0x00008    /* apply symbolic relocs that */
169                                     /* bind to preload objs */
170 #define RTLD_REL_SELF        0x00010    /* apply symbolic relocs that */
171                                     /* bind to ourself */
172 #define RTLD_REL_WEAK        0x00020    /* apply symbolic weak relocs */
173                                     /* even if unresolved */
174 #define RTLD_REL_ALL         0x00fff    /* apply all relocs */
175
176 #define RTLD_MEMORY          0x01000    /* use memory sections */
177 #define RTLD_STRIP          0x02000    /* retain allocable sections */
178                                     /* only */
179 #define RTLD_NOHEAP          0x04000    /* do no save any heap */
180 #define RTLD_CONFSET        0x10000    /* crle(1) config generation */
181                                     /* internal use only */
182
183 /*
184  * Valid values for dladdr1() flags.
185  */
186 #define RTLD_DL_SYMENT        1          /* return symbol table entry */
187 #define RTLD_DL_LINKMAP      2          /* return public link-map */
188 #define RTLD_DL_MASK         0xffff
189
190
191 /*
192  * Arguments for dlinfo()
193  */
194 #define RTLD_DI_LMID          1          /* obtain link-map id */
195 #define RTLD_DI_LINKMAP      2          /* obtain link-map */
196 #define RTLD_DI_CONFIGADDR   3          /* obtain config addr */
197 #define RTLD_DI_SERINFO      4          /* obtain search path info or */
198                                     /* associated info size */
199 #define RTLD_DI_SERINFO_SIZE 5          /* obtain objects origin */
200 #define RTLD_DI_PROFILENAME  7          /* obtain profile object name */
201                                     /* internal use only */
202 #define RTLD_DI_PROFILEOUT   8          /* obtain profile output name */
203                                     /* internal use only */
204 #define RTLD_DI_GETSIGNAL    9          /* get termination signal */
205 #define RTLD_DI_SETSIGNAL    10         /* set termination signal */
206 #define RTLD_DI_ARGSINFO     11         /* get process arguments */
207                                     /* environment and auxv */
208 #define RTLD_DI_MMAPS        12         /* obtain objects mappings or */

```

```

209 #define RTLD_DI_MMAPCNT      13         /* mapping count */
210 #define RTLD_DI_DEFERRED    14         /* assign new dependency to a */
211                                     /* deferred dependency */
212 #define RTLD_DI_DEFERRED_SYM 15         /* assign new dependency to a */
213                                     /* deferred dependency */
214                                     /* using a symbol name */
215 #define RTLD_DI_MAX          15
216
217 #if !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
218 /*
219  * Version information for Dl_amd64_unwindinfo.dlui_version
220  */
221 #define DLUI_VERS_1          1
222 #define DLUI_VERS_CURRENT    DLUI_VERS_1
223
224 /*
225  * Valid flags for Dl_amd64_unwindinfo.dlfi_flags
226  */
227 #define DLUI_FLG_NOUNWIND    0x0001    /* object has no Unwind info */
228 #define DLUI_FLG_NOOBJ       0x0002    /* no object was found */
229                                     /* matching the pc provided */
230 #endif /* !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__) */
231
232 #ifdef __cplusplus
233 }

```

unchanged portion omitted

new/usr/src/head/euc.h

1

```
*****
1772 Sat Aug  2 23:27:04 2014
new/usr/src/head/euc.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
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6  * (the "License"). You may not use this file except in compliance
7  * with the License.
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _EUC_H
30 #define _EUC_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/euc.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

37 #ifdef __STDC__
38 extern int csetcol(int n);      /* Returns # of columns for codeset n. */
39 extern int csetlen(int n);      /* Returns # of bytes excluding SSx. */
40 extern int euclen(const unsigned char *s);
41 extern int euccol(const unsigned char *s);
42 extern int eucscol(const unsigned char *str);
43 #else /* __STDC__ */
44 extern int csetlen(), csetcol();
45 extern int euclen(), euccol(), eucscol();
46 #endif /* __STDC__ */

44 /* Returns code set number for the first byte of an EUC char. */
45 #define csetno(c) \
46      (((c)&0x80)?((c)&0xff) == SS2)?2:(((c)&0xff) == SS3)?3:1):0

48 /*
49  * Copied from _wchar.h of SVR4
50  */
51 #if defined(__STDC__)
52 #define multibyte      (__ctype[520] > 1)
53 #define eucw1          __ctype[514]
54 #define eucw2          __ctype[515]
```

new/usr/src/head/euc.h

2

```
54 #define eucw3          __ctype[516]
55 #define scrw1          __ctype[517]
56 #define scrw2          __ctype[518]
57 #define scrw3          __ctype[519]
63 #else
64 #define multibyte      (__ctype[520] > 1)
65 #define eucw1          __ctype[514]
66 #define eucw2          __ctype[515]
67 #define eucw3          __ctype[516]
68 #define scrw1          __ctype[517]
69 #define scrw2          __ctype[518]
70 #define scrw3          __ctype[519]
71 #endif

59 #ifdef __cplusplus
60 }
_____unchanged_portion_omitted_____
```

```

*****
4353 Sat Aug 2 23:27:04 2014
new/usr/src/head/exec_attr.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
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9  * or http://www.opensolaris.org/os/licensing.
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11 * and limitations under the License.
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 #ifndef _EXEC_ATTR_H
29 #define _EXEC_ATTR_H

31 #ifdef __cplusplus
32 extern "C" {
33 #endif

36 #include <sys/types.h>
37 #include <secdb.h>

40 #define EXECATTR_FILENAME "/etc/security/exec_attr"
41 #define EXECATTR_DB_NAME "exec_attr.org_dir"
42 #define EXECATTR_DB_NCOL 7 /* total columns */
43 #define EXECATTR_DB_NKEYCOL 3 /* total searchable columns */
44 #define EXECATTR_DB_TBLT "exec_attr_tbl"
45 #define EXECATTR_NAME_DEFAULT_KW "nobody"

47 #define EXECATTR_COL0_KW "name"
48 #define EXECATTR_COL1_KW "policy"
49 #define EXECATTR_COL2_KW "type"
50 #define EXECATTR_COL3_KW "res1"
51 #define EXECATTR_COL4_KW "res2"
52 #define EXECATTR_COL5_KW "id"
53 #define EXECATTR_COL6_KW "attr"

55 /*
56  * indices of searchable columns
57  */
58 #define EXECATTR_KEYCOL0 0 /* name */
59 #define EXECATTR_KEYCOL1 1 /* policy */
60 #define EXECATTR_KEYCOL2 5 /* id */

```

```

63 /*
64  * Some macros used internally by the nsswitch code
65 */

67 /*
68  * These macros are bitmasks. GET_ONE and GET_ALL are bitfield 0
69  * and thus mutually exclusive. __SEARCH_ALL_POLLS is bitfield
70  * 1 and can be logically Ored with GET_ALL if one wants to get
71  * all matching profiles from all policies, not just the ones from
72  * the currently active policy
73  *
74  * Testing for these values should be done using the IS_* macros
75  * defined below.
76 */
77 #define GET_ONE 0
78 #define GET_ALL 1
79 #define __SEARCH_ALL_POLLS 2

81 /* get only one exec_attr from list */
82 #define IS_GET_ONE(f) (((f) & GET_ALL) == 0)
83 /* get all matching exec_attrs in list */
84 #define IS_GET_ALL(f) (((f) & GET_ALL) == 1)
85 /* search all existing policies */
86 #define IS_SEARCH_ALL(f) (((f) & __SEARCH_ALL_POLLS) == __SEARCH_ALL_POLLS)

88 /*
89  * Key words used in the exec_attr database
90 */
91 #define EXECATTR_EUID_KW "euid"
92 #define EXECATTR_EGID_KW "egid"
93 #define EXECATTR_UID_KW "uid"
94 #define EXECATTR_GID_KW "gid"
95 #define EXECATTR_LPRIV_KW "limitprivs"
96 #define EXECATTR_IPRIV_KW "privs"

98 /*
99  * Nsswitch representation of execution attributes.
100 */
101 typedef struct execstr_s {
102     char *name; /* profile name */
103     char *policy; /* suser/rbac/tsol */
104     char *type; /* cmd/act */
105     char *res1; /* reserved for future use */
106     char *res2; /* reserved for future use */
107     char *id; /* unique ID */
108     char *attr; /* string of key-value pair attributes */
109     struct execstr_s *next; /* pointer to next entry */
110 } execstr_t;
111
112 _____unchanged_portion_omitted_____

132 #ifdef __STDC__
133 extern execattr_t *getexecattr(void);
134 extern execattr_t *getexecuser(const char *, const char *, const char *, int);
135 extern execattr_t *getexecprof(const char *, const char *, const char *, int);
136 extern execattr_t *match_execattr(execattr_t *, const char *, const char *, \
137     const char *);
138 extern void free_execattr(execattr_t *);
139 extern void setexecattr(void);
140 extern void endexecattr(void);
141
142 #else /* not __STDC__ */
143
144 extern execattr_t *getexecattr();
145 extern execattr_t *getexecuser();

```

```
146 extern execattr_t *getexecprof();
147 extern execattr_t *match_execattr();
148 extern void setexecattr();
149 extern void endexecattr();
150 extern void free_execattr();
151 #endif
```

```
143 #ifdef __cplusplus
144 }
_____unchanged_portion_omitted_
```

new/usr/src/head/execinfo.h

1

\*\*\*\*\*

1480 Sat Aug 2 23:27:04 2014

new/usr/src/head/execinfo.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
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17 * information: Portions Copyright [yyyy] [name of copyright owner]
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19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 #ifndef _EXECINFO_H
29 #define _EXECINFO_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

31 /*
32 * These functions provide glibc-compatible backtrace functionality.
33 * Improved functionality is available using Solaris-specific APIs;
34 * see man page for walkcontext(), printstack() and addtosymstr().
35 */
36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 #if defined(__STDC__)
40 extern int backtrace(void **, int);
41 extern char **backtrace_symbols(void *const *, int);
42 extern void backtrace_symbols_fd(void *const *, int, int);
44 #else
45 extern int backtrace();
46 extern char **backtrace_symbols();
47 extern void backtrace_symbols_fd();
48 #endif

44 #ifdef __cplusplus
45 }

```

unchanged portion omitted



```

*****
5990 Sat Aug 2 23:27:04 2014
new/usr/src/head/fcntl.h
remove support for non-ANSI compilation
*****
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19 * CDDL HEADER END
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24  *
25  * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved      */

32 #ifndef _FCNTL_H
33 #define _FCNTL_H

33 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.6.1.7 */

35 #include <sys/feature_tests.h>
36 #if defined(__EXTENSIONS__) || defined(_XPG4)
37 #include <sys/stat.h>
38 #endif
39 #include <sys/types.h>
40 #include <sys/fcntl.h>

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

46 #if defined(__EXTENSIONS__) || defined(_XPG4)

48 /* Symbolic constants for the "lseek" routine. */

50 #ifndef SEEK_SET
51 #define SEEK_SET      0      /* Set file pointer to "offset" */
52 #endif

54 #ifndef SEEK_CUR
55 #define SEEK_CUR      1      /* Set file pointer to current plus "offset" */
56 #endif

58 #ifndef SEEK_END
59 #define SEEK_END      2      /* Set file pointer to EOF plus "offset" */

```

```

60 #endif
61 #endif /* defined(__EXTENSIONS__) || defined(_XPG4) */

63 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
64 #ifndef SEEK_DATA
65 #define SEEK_DATA      3      /* Set file pointer to next data past offset */
66 #endif

68 #ifndef SEEK_HOLE
69 #define SEEK_HOLE      4      /* Set file pointer to next hole past offset */
70 #endif
71 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

74 /* large file compilation environment setup */
75 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
76 #ifdef __PRAGMA_REDEFINE_EXTNAME
77 #pragma redefine_extname      open      open64
78 #pragma redefine_extname      creat      creat64
79 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
80 #pragma redefine_extname      posix_fadvise      posix_fadvise64
81 #pragma redefine_extname      posix_fallocate      posix_fallocate64
82 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
83 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
84     defined(_ATFILE_SOURCE)
85 #pragma redefine_extname      openat      openat64
86 #pragma redefine_extname      attropen      attropen64
87 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
88 #else
89 #define open      open64
90 #define creat      creat64
91 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
92 #define posix_fadvise      posix_fadvise64
93 #define posix_fallocate      posix_fallocate64
94 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
95 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
96     defined(_ATFILE_SOURCE)
97 #define openat      openat64
98 #define attropen      attropen64
99 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
100 #endif
101 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

103 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
104 #ifdef __PRAGMA_REDEFINE_EXTNAME
105 #pragma redefine_extname      open64      open
106 #pragma redefine_extname      creat64      creat
107 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
108 #pragma redefine_extname      posix_fadvise64      posix_fadvise
109 #pragma redefine_extname      posix_fallocate64      posix_fallocate
110 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
111 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
112     defined(_ATFILE_SOURCE)
113 #pragma redefine_extname      openat64      openat
114 #pragma redefine_extname      attropen64      attropen
115 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
116 #else
117 #define open64      open
118 #define creat64      creat
119 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
120 #define posix_fadvise64      posix_fadvise
121 #define posix_fallocate64      posix_fallocate
122 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
123 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
124     defined(_ATFILE_SOURCE)
125 #define openat64      openat

```

```

126 #define attropen64                attropen
127 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
128 #endif
129 #endif /* _LP64 && _LARGEFILE64_SOURCE */

131 #if defined(__STDC__)

131 extern int fcntl(int, int, ...);
132 extern int open(const char *, int, ...);
133 extern int creat(const char *, mode_t);
134 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
135 extern int posix_fadvise(int, off_t, off_t, int);
136 extern int posix_fallocate(int, off_t, off_t);
137 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
138 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
139     defined(_ATFILE_SOURCE)
140 extern int openat(int, const char *, int, ...);
141 extern int attropen(const char *, const char *, int, ...);
142 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
143 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
144 extern int directio(int, int);
145 #endif

147 /* transitional large file interface versions */
148 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
149     !defined(_PRAGMA_REDEFINE_EXTNAME))
150 extern int open64(const char *, int, ...);
151 extern int creat64(const char *, mode_t);
152 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
153 extern int posix_fadvise64(int, off64_t, off64_t, int);
154 extern int posix_fallocate64(int, off64_t, off64_t);
155 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
156 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
157     defined(_ATFILE_SOURCE)
158 extern int openat64(int, const char *, int, ...);
159 extern int attropen64(const char *, const char *, int, ...);
160 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
161 #endif

165 #else /* defined(__STDC__) */

167 extern int fcntl();
168 extern int open();
169 extern int creat();
170 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
171 extern int posix_fadvise();
172 extern int posix_fallocate();
173 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
174 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
175     defined(_ATFILE_SOURCE)
176 extern int openat();
177 extern int attropen();
178 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */

180 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
181 extern int directio();
182 #endif

184 /* transitional large file interface versions */
185 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
186     !defined(_PRAGMA_REDEFINE_EXTNAME))
187 extern int open64();
188 extern int creat64();
189 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
190 extern int posix_fadvise64();
191 extern int posix_fallocate64();

```

```

192 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || ... */
193 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
194     defined(_ATFILE_SOURCE)
195 extern int openat64();
196 extern int attropen64();
197 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */
198 #endif

200 #endif /* defined(__STDC__) */

163 #ifdef __cplusplus
164 }

```

unchanged portion omitted

new/usr/src/head/float.h

1

```
*****
3817 Sat Aug 2 23:27:04 2014
new/usr/src/head/float.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 #ifndef _FLOAT_H
34 #define _FLOAT_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"

36 #include <sys/feature_tests.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 #if defined(__sparc)

44 #if defined(__STDC__)
44 extern int __flt_rounds(void);
46 #else /* defined(__STDC__) */
47 extern int __flt_rounds();
48 #endif /* defined(__STDC__) */
45 #define FLT_ROUNDS      __flt_rounds()

47 #else /* defined(__sparc) */

53 #if defined(__STDC__)
49 extern int __fltrounds(void);

55 #else /* defined(__STDC__) */
56 extern int __fltrounds();
57 #endif /* defined(__STDC__) */
51 #if defined(__amd64)
```

new/usr/src/head/float.h

2

```
52 #define FLT_ROUNDS      __fltrounds()
53 #else /* defined(__amd64) */
54 extern int __flt_rounds;
55 #define FLT_ROUNDS      __flt_rounds
56 #endif /* defined(__amd64) */
57 #endif /* defined(__sparc) */

59 /* Introduced in ISO/IEC 9899:1999 standard */
60 #if defined(__EXTENSIONS__) || defined(_STDC_C99) || \
61     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX))
62 #if defined(__FLT_EVAL_METHOD__)
63 #define FLT_EVAL_METHOD __FLT_EVAL_METHOD__
64 #else
65 #define FLT_EVAL_METHOD -1
66 #endif /* defined(__FLT_EVAL_METHOD__) */
67 #endif /* defined(__EXTENSIONS__) || defined(_STDC_C99)... */

69 #define FLT_RADIX      2
70 #define FLT_MANT_DIG    24
71 #define FLT_EPSILON    1.1920928955078125000000E-07F
72 #define FLT_DIG        6
73 #define FLT_MIN_EXP    (-125)
74 #define FLT_MIN        1.1754943508222875079688E-38F
75 #define FLT_MIN_10_EXP (-37)
76 #define FLT_MAX_EXP    (+128)
77 #define FLT_MAX        3.4028234663852885981170E+38F
78 #define FLT_MAX_10_EXP (+38)

80 #define DBL_MANT_DIG    53
81 #define DBL_EPSILON    2.2204460492503130808473E-16
82 #define DBL_DIG        15
83 #define DBL_MIN_EXP    (-1021)
84 #define DBL_MIN        2.2250738585072013830903E-308
85 #define DBL_MIN_10_EXP (-307)
86 #define DBL_MAX_EXP    (+1024)
87 #define DBL_MAX        1.7976931348623157081452E+308
88 #define DBL_MAX_10_EXP (+308)

90 /* Introduced in ISO/IEC 9899:1999 standard */
91 #if defined(__EXTENSIONS__) || defined(_STDC_C99) || \
92     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX))
93 #if defined(__sparc)
94 #define DECIMAL_DIG    36
95 #elif defined(__i386) || defined(__amd64)
96 #define DECIMAL_DIG    21
97 #endif
98 #endif /* defined(__EXTENSIONS__) || defined(_STDC_C99)... */

101 #if defined(__i386) || defined(__amd64)

103 /* Follows IEEE standards for 80-bit floating point */
104 #define LDBL_MANT_DIG    64
105 #define LDBL_EPSILON    1.0842021724855044340075E-19L
106 #define LDBL_DIG        18
107 #define LDBL_MIN_EXP    (-16381)
108 #define LDBL_MIN        3.3621031431120935062627E-4932L
109 #define LDBL_MIN_10_EXP (-4931)
110 #define LDBL_MAX_EXP    (+16384)
111 #define LDBL_MAX        1.1897314953572317650213E+4932L
112 #define LDBL_MAX_10_EXP (+4932)

114 #elif defined(__sparc)

116 /* Follows IEEE standards for 128-bit floating point */
117 #define LDBL_MANT_DIG    113
```

new/usr/src/head/float.h

3

```
118 #define LDBL_EPSILON 1.925929944387235853055977942584927319E-34L
119 #define LDBL_DIG 33
120 #define LDBL_MIN_EXP (-16381)
121 #define LDBL_MIN 3.362103143112093506262677817321752603E-4932L
122 #define LDBL_MIN_10_EXP (-4931)
123 #define LDBL_MAX_EXP (+16384)
124 #define LDBL_MAX 1.189731495357231765085759326628007016E+4932L
125 #define LDBL_MAX_10_EXP (+4932)
```

```
127 #else
```

```
129 #error "Unknown architecture!"
```

```
131 #endif
```

```
134 #ifdef __cplusplus
```

```
135 }
    unchanged_portion_omitted
```

new/usr/src/head/fmtmsg.h

1

```
*****
5160 Sat Aug 2 23:27:04 2014
new/usr/src/head/fmtmsg.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved      */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 1996-2003 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 #ifndef _FMTMSG_H
34 #define _FMTMSG_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3      */

36 #include <sys/feature_tests.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /*
43  * fmtmsg.h
44  *
45  * The <fmtmsg.h> header file contains the definitions needed
46  * to use the fmtmsg() function. This function writes messages
47  * in a standard format to the standard error stream (stderr)
48  * and to the system console.
49  */

51 /*
52  * Define the value "NULL" if it hasn't been defined already.
53  * NULL breaks namespace so we define _NULL
54  */
55 #if defined(_LP64)
56 #define _NULL      0L
57 #else
58 #define _NULL      0
59 #endif
```

new/usr/src/head/fmtmsg.h

2

```
61 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
62 #ifndef NULL
63 #define NULL      _NULL
64 #endif
65 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

68 /*
69  * Constraint definitions:
70  *      MM_MXLABELLN      Maximum size of a "label" in a message
71  *      MM_MXTAGLN       Maximum size of a "tag" in a message
72  *      MM_MXTXTLN       Maximum size of a text string
73  *      MM_MXACTLN       Maximum size of an action string
74  */

76 #define MM_MXLABELLN      25
77 #define MM_MXTAGLN       32
78 #define MM_MXTXTLN       512
79 #define MM_MXACTLN       512

81 /*
82  * Environment variable names used by fmtmsg():
83  *      MSGVERB          Tells fmtmsg() which components it is to write
84  *                      to the standard error stream
85  */

87 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
88 #define MSGVERB          "MSGVERB"
89 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

91 /*
92  * Classification information
93  *      - Definition of classifications
94  *      - Definition of recoverability
95  *      - Definition of source classifications
96  */

98 /*
99  * Definition of the "null" classification
100 *      MM_NULL          Indicates that the classification has been omitted
101 */

103 #define MM_NULL          0L

105 /*
106  * Definitions of type classifications:
107  *      MM_HARD          Hardware
108  *      MM_SOFT          Software
109  *      MM_FIRM          Firmware
110  */

112 #define MM_HARD          0x00000001L
113 #define MM_SOFT          0x00000002L
114 #define MM_FIRM          0x00000004L

116 /*
117  * Definitions of recoverability subclassification
118  *      MM_RECOVER       Recoverable
119  *      MM_NRECOV       Non-recoverable
120  */

122 #define MM_RECOVER       0x00000100L
123 #define MM_NRECOV       0x00000200L

125 /*
```

## new/usr/src/head/fmtmsg.h

```

126 * Definitions of source subclassification
127 *   MM_APPL      Application
128 *   MM_UTIL      Utility
129 *   MM_OPSYS     Kernel
130 */

132 #define MM_APPL      0x00000008L
133 #define MM_UTIL      0x00000010L
134 #define MM_OPSYS     0x00000020L

136 /*
137 * Definitions for the action to take with the message:
138 *   MM_PRINT      Write to the standard error stream
139 *   MM_CONSOLE    Treat the message as a console message
140 */

142 #define MM_PRINT      0x00000040L
143 #define MM_CONSOLE    0x00000080L

145 /*
146 * Constants for severity values
147 *
148 *   SEV_LEVEL      Names the env variable that defines severities
149 *
150 *   MM_NOSEV      Message has no severity
151 *   MM_HALT       Message describes a severe error condition
152 *   MM_ERROR      Message describes an error condition
153 *   MM_WARNING    Message tells of probable error condition
154 *   MM_INFO       Message informs, not in error
155 */

157 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
158 #define SEV_LEVEL      "SEV_LEVEL"
159 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

161 #define MM_NOSEV      0
162 #define MM_HALT       1
163 #define MM_ERROR      2
164 #define MM_WARNING    3
165 #define MM_INFO       4

167 /*
168 * Null values for message components
169 *   MM_NULLLBL     Null value for the label-component
170 *   MM_NULLSEV     Null value for the severity-component
171 *   MM_NULLMC      Null value for the classification-component
172 *   MM_NULLTXT     Null value for the text-component
173 *   MM_NULLACT     Null value for the action-component
174 *   MM_NULLTAG     Null value for the tag-component
175 */

177 #define MM_NULLLBL     ((char *)_NULL)
178 #define MM_NULLSEV     MM_NOSEV
179 #define MM_NULLMC      MM_NULL
180 #define MM_NULLTXT     ((char *)_NULL)
181 #define MM_NULLACT     ((char *)_NULL)
182 #define MM_NULLTAG     ((char *)_NULL)

184 /*
185 * Values returned by fmtmsg()
186 *
187 *   MM_NOTOK      None of the requested messages were generated
188 *   MM_NOMSG      No message was written to stderr
189 *   MM_NOCON      No console message was generated
190 */

```

3

## new/usr/src/head/fmtmsg.h

```

192 #define MM_NOTOK      -1
193 #define MM_OK         0x00
194 #define MM_NOMSG      0x01
195 #define MM_NOCON      0x04

197 /* Function definition */

199 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
200 #if defined(__STDC__)
201 int      addseverity(int, const char *);
202 #else /* __STDC__ */
203 int      addseverity();
204 #endif /* __STDC__ */
201 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

207 #if defined(__STDC__)
208 int      fmtmsg(long, const char *, int, const char *, const char *,
209               const char *);
210 #else /* __STDC__ */
211 int      fmtmsg();
212 #endif /* __STDC__ */

206 #ifdef __cplusplus
207 }

```

unchanged portion omitted

4

new/usr/src/head/fnmatch.h

1

```
*****
1707 Sat Aug  2 23:27:05 2014
new/usr/src/head/fnmatch.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 * Copyright (c) 1994 by Sun Microsystems, Inc.
25 * Copyright 1985, 1994 by Mortice Kern Systems Inc. All rights reserved.
26 */

28 #ifndef _FNMATCH_H
29 #define _FNMATCH_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

31 #ifdef __cplusplus
32 extern "C" {
33 #endif

34 #define FNM_PATHNAME      0x01      /* Slash in str only matches slash in pattern */
35 #define FNM_NOESCAPE      0x02      /* Disable '\'-quoting of metacharacters */
36 #define FNM_PERIOD        0x04      /* Leading period in string must be exactly */
37                                     /* matched by period in pattern */
38 #define FNM_IGNORECASE    0x08      /* Ignore case when making comparisons */

41 #define FNM_NOMATCH       1          /* string doesnt match the specified pattern */
42 #define FNM_ERROR         2          /* error occured */
43 #define FNM_NOSYS         3          /* Function (XPG4) not supported */

46 #if defined(__STDC__)
47 extern int fnmatch(const char *, const char *, int);
48 #else
49 extern int fnmatch();
50 #endif

47 #ifdef __cplusplus
48 }

```

unchanged\_portion\_omitted

new/usr/src/head/ftw.h

1

```
*****
4957 Sat Aug 2 23:27:05 2014
new/usr/src/head/ftw.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1988 AT&T */
29 /*      All Rights Reserved */

32 #ifndef _FTW_H
33 #define _FTW_H

33 #pragma ident "%Z%M% %I% %E% SMI"

35 #include <sys/feature_tests.h>

37 #include <sys/types.h>
38 #include <sys/stat.h>

40 #ifdef __cplusplus
41 extern "C" {
42 #endif

44 /*
45  * Codes for the third argument to the user-supplied function.
46  */

48 #define FTW_F 0 /* file */
49 #define FTW_D 1 /* directory */
50 #define FTW_DNR 2 /* directory without read permission */
51 #define FTW_NS 3 /* unknown type, stat failed */
52 #define FTW_SL 4 /* symbolic link */
53 #define FTW_DP 6 /* directory */
54 #define FTW_SLN 7 /* symbolic link that points to nonexistent file */
55 #define FTW_DL 8 /* private interface for find utility */

57 /*
58  * Codes for the fourth argument to nftw. You can specify the
59  * union of these flags.
```

new/usr/src/head/ftw.h

2

```
60 */

62 #define FTW_PHYS 01 /* use lstat instead of stat */
63 #define FTW_MOUNT 02 /* do not cross a mount point */
64 #define FTW_CHDIR 04 /* chdir to each directory before reading */
65 #define FTW_DEPTH 010 /* call descendants before calling the parent */
66 #define FTW_ANYERR 020 /* return FTW_NS on any stat failure */
67 #define FTW_HOPTION 040 /* private interface for find utility */
68 #define FTW_NOLOOP 0100 /* private interface for find utility */

70 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) || defined(_XPG4_2)
71 struct FTW
72 {
73 #if defined(_XPG4_2)
74     int __quit;
75 #else
76     int quit;
77 #endif
78     int base;
79     int level;
80 };
81 #endif /* defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) ... */

83 /*
84  * legal values for quit
85  */

87 #define FTW_SKD 1
88 #define FTW_FOLLOW 2
89 #define FTW_PRUNE 4

91 /* large file compilation environment setup */
92 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
93 #ifdef __PRAGMA_REDEFINE_EXTNAME
94 #pragma redefine_extname _xftw _xftw64
95 #pragma redefine_extname _ftw _ftw64
96 #if !defined(_XOPEN_SOURCE) || defined(_XPG5)
97 #pragma redefine_extname nftw nftw64
98 #endif
99 #else /* __PRAGMA_REDEFINE_EXTNAME */
100 #define _xftw _xftw64
101 #define _ftw _ftw64
102 #if !defined(_XOPEN_SOURCE) || defined(_XPG5)
103 #define nftw nftw64
104 #endif
105 #endif /* __PRAGMA_REDEFINE_EXTNAME */
106 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

108 /* In the LP64 compilation environment, all APIs are already large file */
109 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
110 #ifdef __PRAGMA_REDEFINE_EXTNAME
111 #pragma redefine_extname _xftw64 _xftw
112 #pragma redefine_extname _ftw64 _ftw
113 #if !defined(_XOPEN_SOURCE) || defined(_XPG5)
114 #pragma redefine_extname nftw64 nftw
115 #endif
116 #else /* __PRAGMA_REDEFINE_EXTNAME */
117 #define _xftw64 _xftw
118 #define _ftw64 _ftw
119 #if !defined(_XOPEN_SOURCE) || defined(_XPG5)
120 #define nftw64 nftw
121 #endif
122 #endif /* __PRAGMA_REDEFINE_EXTNAME */
123 #endif /* !_LP64 && _LARGEFILE64_SOURCE */

125 #if defined(__STDC__)
```



```

125 extern int ftw(const char *,
126               int (*)(const char *, const struct stat *, int), int);
127 extern int _xftw(int, int _xftw(int, const char *,
128               int (*)(const char *, const struct stat *, int), int);
129 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) || defined(_XPG4_2)
130 extern int nftw(const char *,
131               int (*)(const char *, const struct stat *, int, struct FTW *),
132               int, int);
133 #endif /* defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) ... */

135 /*
136  * transitional large file interface versions
137  */
138 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
139     !defined(__PRAGMA_REDEFINE_EXTNAME))
140 extern int ftw64(const char *,
141               int (*)(const char *, const struct stat64 *, int), int);
142 extern int _xftw64(int, int _xftw64(int, const char *,
143               int (*)(const char *, const struct stat64 *, int), int);
144 #if !defined(_XOPEN_SOURCE)
145 extern int nftw64(const char *,
146               int (*)(const char *, const struct stat64 *, int, struct FTW *),
147               int, int);
148 #endif /* !defined(_XOPEN_SOURCE) */
149 #endif /* _LARGEFILE64_SOURCE .. */

153 #else /* __STDC__ */

155 extern int ftw(), _xftw();

157 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) || defined(_XPG4_2)
158 extern int nftw();
159 #endif /* defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) ... */

161 /* transitional large file interface versions */
162 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
163     !defined(__PRAGMA_REDEFINE_EXTNAME))
164 extern int ftw64();
165 extern int _xftw64();
166 #if !defined(_XOPEN_SOURCE)
167 extern int nftw64();
168 #endif /* !defined(_XOPEN_SOURCE) */
169 #endif /* _LARGEFILE64_SOURCE .. */

171 #endif /* __STDC__ */

151 #define _XFTWVER      2      /* version of file tree walk */

153 #define ftw(path, fn, depth)  _xftw(_XFTWVER, (path), (fn), (depth))

155 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
156     !defined(__PRAGMA_REDEFINE_EXTNAME))
157 #define ftw64(path, fn, depth)  _xftw64(_XFTWVER, (path), (fn), (depth))
158 #endif

160 #ifdef __cplusplus
161 }

```

unchanged portion omitted

```

*****
2186 Sat Aug 2 23:27:05 2014
new/usr/src/head/getopt.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*
30 * GNU-like getopt_long(), getopt_long_only().
31 * Solaris-specific getopt_clip().
32 */

34 #ifndef _GETOPT_H
35 #define _GETOPT_H

36 #pragma ident "%Z%M% %I% %E% SMI"

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

42 /*
43  * Values for has_arg field.
44  *
45  * optional_argument is not supported by getopt_clip()
46  */
47 #define no_argument      0
48 #define required_argument 1
49 #define optional_argument 2

51 struct option {
52     char *name;          /* name of long option */
53     int has_arg;        /* whether option takes an argument */
54     int *flag;          /* if not NULL, set *flag to val when option found */
55     int val;           /* if flag is not NULL, value to set *flag to. */
56                     /* if flag is NULL, return value */
57 };

59 /*

```

```

60 * External variables used by these routines.
61 */
62 extern char *optarg;
63 extern int opterr;
64 extern int optind;
65 extern int optopt;

67 /*
68 * The use of getopt_long_only in new development is strongly discouraged.
69 */
70 #ifdef __STDC__
71 extern int      getopt_long(int, char * const *, const char *,
72                             const struct option *, int *);
73 extern int      getopt_long_only(int, char * const *, const char *,
74                                 const struct option *, int *);
75 extern int      getopt_clip(int, char * const *, const char *,
76                             const struct option *, int *);
77 #else /* __STDC__ */
78 extern int      getopt_long();
79 extern int      getopt_long_only();
80 extern int      getopt_clip();
81 #endif /* __STDC__ */

77 #ifdef __cplusplus
78 }
_____unchanged_portion_omitted_____

```

new/usr/src/head/getwidth.h

1

\*\*\*\*\*

1259 Sat Aug 2 23:27:05 2014

new/usr/src/head/getwidth.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
```

```
23 /*
24 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
```

```
25 *
26 * Copyright 1989 Sun Microsystems, Inc. All rights reserved.
27 * Use is subject to license terms.
28 */
```

```
30 /*      Copyright (c) 1984 AT&T */
31 /*      All Rights Reserved      */
```

```
33 #ifndef _GETWIDTH_H
34 #define _GETWIDTH_H
```

```
34 #pragma ident      "%Z%M% %I%      %E% SMI"
```

```
36 #include <euc.h>
```

```
38 #ifdef __cplusplus
39 extern "C" {
40 #endif
```

```
42 #ifdef __STDC__
42 extern void getwidth(eucwidth_t *);
44 #else /* __STDC__ */
45 extern void getwidth();
46 #endif /* __STDC__ */
```

```
44 #ifdef __cplusplus
45 }
```

```
_____unchanged_portion_omitted_
```

```

*****
6254 Sat Aug 2 23:27:05 2014
new/usr/src/head/glob.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */

23 /*
24 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
25 * Copyright 1985, 1992 by Mortice Kern Systems Inc. All rights reserved.
26 */

28 /*
29 * Copyright (c) 1989, 1993
30 * The Regents of the University of California. All rights reserved.
31 *
32 * This code is derived from software contributed to Berkeley by
33 * Guido van Rossum.
34 *
35 * Redistribution and use in source and binary forms, with or without
36 * modification, are permitted provided that the following conditions
37 * are met:
38 * 1. Redistributions of source code must retain the above copyright
39 * notice, this list of conditions and the following disclaimer.
40 * 2. Redistributions in binary form must reproduce the above copyright
41 * notice, this list of conditions and the following disclaimer in the
42 * documentation and/or other materials provided with the distribution.
43 * 3. Neither the name of the University nor the names of its contributors
44 * may be used to endorse or promote products derived from this software
45 * without specific prior written permission.
46 *
47 * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
48 * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
49 * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
50 * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
51 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
52 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
53 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
54 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
55 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
56 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
57 * SUCH DAMAGE.
58 *
59 * @(#)glob.h 8.1 (Berkeley) 6/2/93
60 */

```

```

62 /*
63  * Copyright 2003 Sun Microsystems, Inc. All rights reserved.
64  * Use is subject to license terms.
65  * Copyright (c) 2013 Gary Mills
66  */

68 #ifndef _GLOB_H
69 #define _GLOB_H

71 #include <sys/feature_tests.h>
72 #include <sys/types.h>
73 #include <sys/stat.h>
74 #include <dirent.h>

76 #ifdef __cplusplus
77 extern "C" {
78 #endif

80 typedef struct glob_t {
81     /*
82      * Members specified by POSIX
83      */
84     size_t gl_pathc; /* Total count of paths matched by pattern */
85     char **gl_pathv; /* List of matched pathnames */
86     size_t gl_offs; /* # of slots reserved in gl_pathv */

88     /*
89      * Internal-use members:
90      */
91     /* NB: The next two members are carried in both the
92      * libc backward compatibility wrapper functions and
93      * the extended functions.
94      */
95     char **gl_pathp; /* gl_pathv + gl_offs */
96     int gl_pathn; /* # of elements allocated */

98     /*
99      * Non-POSIX extensions
100     */
101     /* NB: The following members are not carried in
102     * the libc backward compatibility wrapper functions.
103     */
104     int gl_matchc; /* Count of paths matching pattern. */
105     int gl_flags; /* Copy of flags parameter to glob. */
106     struct stat **gl_statv; /* Stat entries corresponding to gl_pathv */

108     /*
109     * Alternate filesystem access methods for glob; replacement
110     * versions of closedir(3), readdir(3), opendir(3), stat(2)
111     * and lstat(2).
112     */
113     void (*gl_closedir)(void *);
114     struct dirent *(*gl_readdir)(void *);
115     void *(*gl_opendir)(const char *);
116     int (*gl_lstat)(const char *, struct stat *);
117     int (*gl_stat)(const char *, struct stat *);
118 } glob_t;

120 /*
121  * POSIX "flags" argument to glob function.
122  */
123 #define GLOB_ERR 0x0001 /* Don't continue on directory error */
124 #define GLOB_MARK 0x0002 /* Mark directories with trailing / */
125 #define GLOB_NOSORT 0x0004 /* Don't sort pathnames */
126 #define GLOB_NOCHECK 0x0008 /* Return unquoted arg if no match */
127 #define GLOB_DOOFFS 0x0010 /* Ignore gl_offs unless set */

```

```

128 #define GLOB_APPEND      0x0020      /* Append to previous glob_t */
129 #define GLOB_NOESCAPE    0x0040      /* Backslashes do not quote M-chars */

131 /*
132 * Non-POSIX "flags" argument to glob function, from OpenBSD.
133 */
134 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
135 #define GLOB_POSIX        0x007F      /* All POSIX flags */
136 #define GLOB_BRACE        0x0080      /* Expand braces ala csh. */
137 #define GLOB_MAGCHAR      0x0100      /* Pattern had globbing characters. */
138 #define GLOB_NOMAGIC      0x0200      /* GLOB_NOCHECK without magic chars (csh). */
139 #define GLOB_QUOTE        0x0400      /* Quote special chars with \. */
140 #define GLOB_TILDE        0x0800      /* Expand tilde names from the passwd file. */
141 #define GLOB_LIMIT        0x2000      /* Limit pattern match output to ARG_MAX */
142 #define GLOB_KEEPSTAT     0x4000      /* Retain stat data for paths in gl_statv. */
143 #define GLOB_ALTDIRFUNC   0x8000      /* Use alternately specified directory funcs. */
144 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

146 /*
147 * Error returns from "glob"
148 */
149 #define GLOB_NOSYS        (-4)         /* function not supported (XPG4) */
150 #define GLOB_NOMATCH     (-3)         /* Pattern does not match */
151 #define GLOB_NOSPACE     (-2)         /* Not enough memory */
152 #define GLOB_ABORTED    (-1)         /* GLOB_ERR set or errfunc return!=0 */
153 #define GLOB_ABEND      GLOB_ABORTED /* backward compatibility */

155 #ifdef __PRAGMA_REDEFINE_EXTNAME
156 #pragma redefine_extname      glob      _glob_ext
157 #pragma redefine_extname      globfree  _globfree_ext
158 #else /* __PRAGMA_REDEFINE_EXTNAME */
159 #define glob      _glob_ext
160 #define globfree _globfree_ext
161 #endif /* __PRAGMA_REDEFINE_EXTNAME */

162 #if defined(__STDC__)

163 extern int glob(const char *_RESTRICT_KYWD, int, int*)(const char *, int),
164             glob_t *_RESTRICT_KYWD);
165 extern void globfree(glob_t *);

166 #else /* __STDC__ */

167 extern int glob();
168 extern void globfree();

169 #endif /* __STDC__ */

170 #ifdef __cplusplus
168 }
_____unchanged_portion_omitted_____

```

new/usr/src/head/grp.h

1

```
*****
5643 Sat Aug  2 23:27:05 2014
new/usr/src/head/grp.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved      */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 #ifndef _GRP_H
34 #define _GRP_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3.3.1 */

36 #include <sys/feature_tests.h>

38 #include <sys/types.h>

40 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
41 #include <stdio.h>
42 #endif

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

48 struct  group { /* see getgrent(3C) */
49     char   *gr_name;
50     char   *gr_passwd;
51     gid_t   gr_gid;
52     char   **gr_mem;
53 };

55 #if defined(__STDC__)
56 extern struct group *getgrgid(gid_t);          /* MT-unsafe */
57 extern struct group *getgrnam(const char *);  /* MT-unsafe */

```

new/usr/src/head/grp.h

2

```
58 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
59 extern struct group *getgrent_r(struct group *, char *, int);
60 extern struct group *fgetgrent_r(FILE *, struct group *, char *, int);

63 extern struct group *fgetgrent(FILE *);          /* MT-unsafe */
64 extern int  initgroups(const char *, gid_t);
65 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) */

67 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)
68 extern void endgrent(void);
69 extern void setgrent(void);
70 extern struct group *getgrent(void);          /* MT-unsafe */
71 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)... */

75 #else

77 extern struct group *getgrgid();              /* MT-unsafe */
78 extern struct group *getgrnam();             /* MT-unsafe */

80 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
81 extern struct group *getgrent_r();
82 extern struct group *fgetgrent_r();

84 extern struct group *fgetgrent();          /* MT-unsafe */
85 extern int  initgroups();
86 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) */

88 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)
89 extern void endgrent();
90 extern void setgrent();
91 extern struct group *getgrent();          /* MT-unsafe */
92 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)... */

94 #endif /* __STDC__ */

73 /*
74  * getgrgid_r() & getgrnam_r() prototypes are defined here.
75  */

77 /*
78  * Previous releases of Solaris, starting at 2.3, provided definitions of
79  * various functions as specified in POSIX.1c, Draft 6. For some of these
80  * functions, the final POSIX 1003.1c standard had a different number of
81  * arguments and return values.
82  *
83  * The following segment of this header provides support for the standard
84  * interfaces while supporting applications written under earlier
85  * releases. The application defines appropriate values of the feature
86  * test macros _POSIX_C_SOURCE and _POSIX_PTHREAD_SEMANTICS to indicate
87  * whether it was written to expect the Draft 6 or standard versions of
88  * these interfaces, before including this header. This header then
89  * provides a mapping from the source version of the interface to an
90  * appropriate binary interface. Such mappings permit an application
91  * to be built from libraries and objects which have mixed expectations
92  * of the definitions of these functions.
93  *
94  * For applications using the Draft 6 definitions, the binary symbol is the
95  * same as the source symbol, and no explicit mapping is needed. For the
96  * standard interface, the function func() is mapped to the binary symbol
97  * _posix_func(). The preferred mechanism for the remapping is a compiler
98  * #pragma. If the compiler does not provide such a #pragma, the header file
99  * defines a static function func() which calls the _posix_func() version;
100 * this has to be done instead of #define since POSIX specifies that an
101 * application can #undef the symbol and still be bound to the correct

```

```

102 * implementation. Unfortunately, the statics confuse lint so we fallback to
103 * #define in that case.
104 *
105 * NOTE: Support for the Draft 6 definitions is provided for compatibility
106 * only. New applications/libraries should use the standard definitions.
107 */

109 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
110    (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

136 #if defined(__STDC__)

112 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

114 #ifdef __PRAGMA_REDEFINE_EXTNAME
115 #pragma redefine_extname getgrgid_r __posix_getgrgid_r
116 #pragma redefine_extname getgrnam_r __posix_getgrnam_r
117 extern int getgrgid_r(gid_t, struct group *, char *, int, struct group **);
118 extern int getgrnam_r(const char *, struct group *, char *, int,
119                      struct group **);
120 #else /* __PRAGMA_REDEFINE_EXTNAME */

122 extern int __posix_getgrgid_r(gid_t, struct group *, char *, size_t,
123                               struct group **);
124 extern int __posix_getgrnam_r(const char *, struct group *, char *, size_t,
125                               struct group **);

127 #ifdef __lint

129 #define getgrgid_r __posix_getgrgid_r
130 #define getgrnam_r __posix_getgrnam_r

132 #else /* !__lint */

134 static int
135 getgrgid_r(gid_t __gid, struct group *__grp, char *__buf, int __len,
136            struct group **__res)
137 {
138     return (__posix_getgrgid_r(__gid, __grp, __buf, __len, __res));
139 }
_____ unchanged_portion_omitted _____

147 #endif /* !__lint */
148 #endif /* __PRAGMA_REDEFINE_EXTNAME */

150 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

152 extern struct group *getgrgid_r(gid_t, struct group *, char *, int);
153 extern struct group *getgrnam_r(const char *, struct group *, char *, int);

155 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

183 #else /* __STDC__ */

185 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

187 #ifdef __PRAGMA_REDEFINE_EXTNAME
188 #pragma redefine_extname getgrgid_r __posix_getgrgid_r
189 #pragma redefine_extname getgrnam_r __posix_getgrnam_r
190 extern int getgrgid_r();
191 extern int getgrnam_r();
192 #else /* __PRAGMA_REDEFINE_EXTNAME */

194 extern int __posix_getgrgid_r();
195 extern int __posix_getgrnam_r();

```

```

197 #ifdef __lint

199 #define getgrgid_r __posix_getgrgid_r
200 #define getgrnam_r __posix_getgrnam_r

202 #else /* !__lint */

204 static int
205 getgrgid_r(__gid, __grp, __buf, __len, __res)
206     gid_t __gid;
207     struct group *__grp;
208     char *__buf;
209     int __len;
210     struct group **__res;
211 {
212     return (__posix_getgrgid_r(__gid, __grp, __buf, __len, __res));
213 }
214 static int
215 getgrnam_r(__cb, __grp, __buf, __len, __res)
216     char *__cb;
217     struct group *__grp;
218     char *__buf;
219     int __len;
220     struct group **__res;
221 {
222     return (__posix_getgrnam_r(__cb, __grp, __buf, __len, __res));
223 }

225 #endif /* !__lint */
226 #endif /* __PRAGMA_REDEFINE_EXTNAME */

228 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

230 extern struct group *getgrgid_r();
231 extern struct group *getgrnam_r();

233 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

235 #endif /* __STDC__ */

157 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)... */

159 #ifdef __cplusplus
160 }
_____ unchanged_portion_omitted _____

```

```

*****
1603 Sat Aug 2 23:27:05 2014
new/usr/src/head/iconv.h
remove support for non-ANSI compilation
*****
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27 */

29 #ifndef _ICONV_H
30 #define _ICONV_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/feature_tests.h>
33 #include <sys/types.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 typedef struct _iconv_info *iconv_t;

41 #if defined(__STDC__)
41 extern iconv_t  iconv_open(const char *, const char *);
42 #ifdef _XPG6
43 extern size_t   iconv(iconv_t, char **_RESTRICT_KYWD,
44                      size_t *_RESTRICT_KYWD, char **_RESTRICT_KYWD,
45                      size_t *_RESTRICT_KYWD);
46 #else
47 extern size_t   iconv(iconv_t, const char **_RESTRICT_KYWD,
48                      size_t *_RESTRICT_KYWD, char **_RESTRICT_KYWD,
49                      size_t *_RESTRICT_KYWD);
50 #endif
51 extern int      iconv_close(iconv_t);
53 #else /* __STDC__ */
54 extern iconv_t  iconv_open();
55 extern size_t   iconv();
56 extern int      iconv_close();
57 #endif

53 #endif __cplusplus

```

```

54 }
_____unchanged_portion_omitted_____

```



new/usr/src/head/ieeefp.h

1

```
*****
9363 Sat Aug 2 23:27:05 2014
new/usr/src/head/ieeefp.h
remove support for non-ANSI compilation
*****
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
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24 *
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27 */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved */

33 #ifndef _IEEEFP_H
34 #define _IEEEFP_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 /*
41  * Floating point environment for machines that support
42  * the IEEE 754 floating-point standard. This file currently
43  * supports the 80*87, and SPARC families.
44  *
45  * This header defines the following interfaces:
46  * 1) Classes of floating point numbers
47  * 2) Rounding Control
48  * 3) Exception Control
49  * 4) Exception Handling
50  * 5) Utility Macros
51  * 6) Full Exception Environment Control
52  */

54 /*
55  * CLASSES of floating point numbers *****
56  * IEEE floating point values fall into 1 of the following 10
57  * classes
58  */
59 typedef enum      fpclass_t {
```

new/usr/src/head/ieeefp.h

2

```
60      FP_SNAN = 0,      /* signaling NaN */
61      FP_QNAN = 1,     /* quiet NaN */
62      FP_NINF = 2,     /* negative infinity */
63      FP_PINF = 3,     /* positive infinity */
64      FP_NDENORM = 4,  /* negative denormalized non-zero */
65      FP_PDENORM = 5,  /* positive denormalized non-zero */
66      FP_NZERO = 6,    /* -0.0 */
67      FP_PZERO = 7,    /* +0.0 */
68      FP_NNORM = 8,    /* negative normalized non-zero */
69      FP_PNORM = 9     /* positive normalized non-zero */
70 } fpclass_t;

72 #if defined(__STDC__)
72 extern fpclass_t fpclass(double);      /* get class of double value */
73 extern int      finite(double);
74 extern int      unordered(double, double);
76 #else
77 extern fpclass_t fpclass();      /* get class of double value */
78 #endif

76 /*
77  * ROUNDING CONTROL *****
78  *
79  * At all times, floating-point math is done using one of four
80  * mutually-exclusive rounding modes.
81  */

83 #if defined(__i386) || defined(__amd64)

85 /*
86  * NOTE: the values given are chosen to match those used by the
87  * 80*87 rounding mode field in the control word.
88  */
89 typedef enum      fp_rnd {
90      FP_RN = 0,      /* round to nearest representable number, tie -> even */
91      FP_RM = 1,     /* round toward minus infinity */
92      FP_RP = 2,     /* round toward plus infinity */
93      FP_RZ = 3      /* round toward zero (truncate) */
94 } fp_rnd;

unchanged_portion_omitted

111 #endif

117 #if defined(__STDC__)
113 extern fp_rnd      fpsetround(fp_rnd);      /* set rounding mode, return previous */
114 extern fp_rnd      fpgetround(void);      /* return current rounding mode */

121 #else
122 extern fp_rnd      fpsetround();      /* set rounding mode, return previous */
123 extern fp_rnd      fpgetround();      /* return current rounding mode */

125 #endif

116 /*
117  * EXCEPTION CONTROL *****
118  *
119  */

121 #define fp_except      int

123 #define FP_DISABLE      0      /* exception will be ignored */
124 #define FP_ENABLE      1      /* exception will cause SIGFPE */
125 #define FP_CLEAR      0      /* exception has not occurred */
126 #define FP_SET      1      /* exception has occurred */

128 #if defined(__i386) || defined(__amd64)
```

```

130 /*
131 * There are six floating point exceptions, which can be individually
132 * ENABLED (== 1) or DISABLED (== 0). When an exception occurs
133 * (ENABLED or not), the fact is noted by changing an associated
134 * "sticky bit" from CLEAR (==0) to SET (==1).
135 *
136 * NOTE: the bit positions in fp_except are chosen to match those of
137 * the 80*87 control word mask bits. Although the 87 chips actually
138 * ENABLE exceptions with a mask value of 0 (not 1, as on the 3b), it
139 * is felt that switching these values may create more problems than
140 * it solves.
141 */

143 /* an fp_except can have the following (not exclusive) values: */
144 #define FP_X_INV      0x01 /* invalid operation exception */
145 #define FP_X_DNML    0x02 /* denormalization exception */
146 #define FP_X_DZ      0x04 /* divide-by-zero exception */
147 #define FP_X_OF      0x08 /* overflow exception */
148 #define FP_X_UFL     0x10 /* underflow exception */
149 #define FP_X_IMP     0x20 /* imprecise (loss of precision) */

151 #endif

153 #if defined(__sparc)

155 /*
156 * There are five floating-point exceptions, which can be individually
157 * ENABLED (== 1) or DISABLED (== 0). When an exception occurs
158 * (ENABLED or not), the fact is noted by changing an associated
159 * "sticky bit" from CLEAR (==0) to SET (==1).
160 *
161 * NOTE: the bit positions in an fp_except are chosen to match that in
162 * the Trap Enable Mask of the FSR (Floating Point State Register).
163 */

165 /* an fp_except can have the following (not exclusive) values: */
166 #define FP_X_INV      0x10 /* invalid operation exception */
167 #define FP_X_OF      0x08 /* overflow exception */
168 #define FP_X_UFL     0x04 /* underflow exception */
169 #define FP_X_DZ      0x02 /* divide-by-zero exception */
170 #define FP_X_IMP     0x01 /* imprecise (loss of precision) */

172 #endif

185 #if defined(__STDC__)
174 extern fp_except fpgetmask(void); /* current exception mask */
175 extern fp_except fpsetmask(fp_except); /* set mask, return previous */
176 extern fp_except fpgetsticky(void); /* return logged exceptions */
177 extern fp_except fpsetsticky(fp_except); /* change logged exceptions */
181 #endif

191 #else
192 extern fp_except fpgetmask(); /* current exception mask */
193 extern fp_except fpsetmask(); /* set mask, return previous */
194 extern fp_except fpgetsticky(); /* return logged exceptions */
195 extern fp_except fpsetsticky(); /* change logged exceptions */
197 #endif

179 /*
180 * UTILITY MACROS *****
181 */

203 #if defined(__STDC__)
183 extern int isnanf(float);
184 extern int isnand(double);

```

```

207 #else
208 extern int isnand();
209 #define isnanf(x)      (((*(long *)&(x) & 0x7f800000L) == 0x7f800000L) && \
210                        (*(long *)&(x) & 0x007fffffL) != 0x00000000L)
211 #endif

186 #if defined(__i386) || defined(__amd64)

188 /*
189 * EXCEPTION HANDLING *****
190 *
191 * When a signal handler catches an FPE, it will have a freshly initialized
192 * coprocessor. This allows signal handling routines to make use of
193 * floating point arithmetic, if need be. The previous state of the 87
194 * chip is available, however. There are two ways to get at this information,
195 * depending on how the signal handler was set up.
196 *
197 * If the handler was set via signal() or sigset(), the old, SVR3, method
198 * should be used: the signal handler assumes that it has a single parameter,
199 * which is of type struct _fpstackframe, defined below. By investigating
200 * this parameter, the cause of the FPE may be determined. By modifying it,
201 * the state of the coprocessor can be changed upon return to the main task.
202 * THIS METHOD IS OBSOLETE, AND MAY NOT BE SUPPORTED IN FUTURE RELEASES.
203 *
204 * If the handler was set via sigaction(), the new, SVR4, method should be
205 * used: the third argument to the handler will be a pointer to a ucontext
206 * structure (see sys/ucontext.h). The uc_mcontext.fpregs member of the
207 * ucontext structure holds the saved floating-point registers. This can be
208 * examined and/or modified. By modifying it, the state of the coprocessor
209 * can be changed upon return to the main task.
210 */

212 struct _fpreg { /* structure of a temp real fp register */
213     unsigned short significand[4]; /* 64 bit mantissa value */
214     unsigned short exponent; /* 15 bit exponent and sign bit */
215 };
216 #define _unchanged_portion_omitted_

```

new/usr/src/head/inttypes.h

1

```
*****
3979 Sat Aug 2 23:27:06 2014
new/usr/src/head/inttypes.h
remove support for non-ANSI compilation
*****
1 /*
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _INTTYPES_H
30 #define _INTTYPES_H

32 /*
33  * This file, <inttypes.h>, is specified by the ISO C standard,
34  * standard, ISO/IEC 9899:1999 Programming language - C and is
35  * also defined by SUSv3.
36  *
37  * ISO International Organization for Standardization.
38  * SUSv3 Single Unix Specification, Version 3
39  */

41 #include <sys/feature_tests.h>
42 #include <sys/inttypes.h>

44 #if (!defined(_XOPEN_SOURCE) || defined(_XPG6)) || defined(_STDC_C99) || \
45     defined(__EXTENSIONS__)
46 #include <sys/stdint.h>
47 #endif

49 #ifdef __cplusplus
50 extern "C" {
51 #endif

53 /* Inclusion of <stddef.h> breaks namespace, therefore define wchar_t */

55 /*
56  * wchar_t is a built-in type in standard C++ and as such is not
57  * defined here when using standard C++. However, the GNU compiler
58  * fixincludes utility nonetheless creates its own version of this
59  * header for use by gcc and g++. In that version it adds a redundant
```

new/usr/src/head/inttypes.h

2

```
60 * guard for __cplusplus. To avoid the creation of a gcc/g++ specific
61 * header we need to include the following magic comment:
62 *
63 * we must use the C++ compiler's type
64 *
65 * The above comment should not be removed or changed until GNU
66 * gcc/fixinc/inclhack.def is updated to bypass this header.
67 */
68 #if !defined(__cplusplus) || (__cplusplus < 199711L && !defined(__GNU__))
69 #ifndef _WCHAR_T
70 #define _WCHAR_T
71 #if defined(_LP64)
72 typedef int wchar_t;
73 #else
74 typedef long wchar_t;
75 #endif
76 #endif /* !_WCHAR_T */
77 #endif /* !_cplusplus || (__cplusplus < 199711L && !__GNU__) */

79 #if (!defined(_XOPEN_SOURCE) || defined(_XPG6)) || defined(_STDC_C99) || \
80     defined(__EXTENSIONS__)
81 typedef struct {
82     intmax_t quot;
83     intmax_t rem;
84 } imaxdiv_t;
85 #endif /* (!defined(_XOPEN_SOURCE) || defined(_XPG6)) ... */

87 #if !defined(_LP64) && !defined(_LONGLONG_TYPE)
88 #ifdef __PRAGMA_REDEFINE_EXTNAME
89 #pragma redefine_extname imaxabs _imaxabs_c89
90 #pragma redefine_extname imaxdiv _imaxdiv_c89
91 #pragma redefine_extname strtoumax _strtoumax_c89
92 #pragma redefine_extname strtoumax _strtoumax_c89
93 #pragma redefine_extname wcstoumax _wcstoumax_c89
94 #pragma redefine_extname wcstoumax _wcstoumax_c89
95 #else
96 #define imaxabs _imaxabs_c89
97 #define imaxdiv _imaxdiv_c89
98 #define strtoumax _strtoumax_c89
99 #define strtoumax _strtoumax_c89
100 #define wcstoumax _wcstoumax_c89
101 #define wcstoumax _wcstoumax_c89
102 #endif
103 #endif /* !defined(_LP64) && !defined(_LONGLONG_TYPE) */

105 #if (!defined(_XOPEN_SOURCE) || defined(_XPG6)) || defined(_STDC_C99) || \
106     defined(__EXTENSIONS__)

108 #ifdef __STDC__
109 extern intmax_t imaxabs(intmax_t);
110 extern imaxdiv_t imaxdiv(intmax_t, intmax_t);
111 extern intmax_t strtoumax(const char *_RESTRICT_KYWD, char **_RESTRICT_KYWD,
112 int);
113 extern uintmax_t strtoumax(const char *_RESTRICT_KYWD, char **_RESTRICT_KYWD,
114 int);
115 extern intmax_t wcstoumax(const wchar_t *_RESTRICT_KYWD,
116 wchar_t **_RESTRICT_KYWD, int);
117 extern uintmax_t wcstoumax(const wchar_t *_RESTRICT_KYWD,
118 wchar_t **_RESTRICT_KYWD, int);
119 #else
120 extern intmax_t imaxabs();
121 extern imaxdiv_t imaxdiv();
122 extern intmax_t strtoumax();
123 extern uintmax_t strtoumax();
124 extern intmax_t wcstoumax();
125 extern uintmax_t wcstoumax();
```

```
126 #endif  
119 #endif /* (!defined(_XOPEN_SOURCE) || defined(_XPG6)) ... */  
121 #ifdef __cplusplus  
122 }  
unchanged_portion_omitted
```

new/usr/src/head/iso/ctype\_iso.h

1

```
*****
3424 Sat Aug  2 23:27:06 2014
new/usr/src/head/iso/ctype_iso.h
remove support for non-ANSI compilation
*****
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20 * CDDL HEADER END
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27 *
28 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */
31 /* Copyright 2013 Garrett D'Amore <garrett@damore.org>
32 */

33 /*
34 * An application should not include this header directly. Instead it
35 * should be included only through the inclusion of other Sun headers.
36 *
37 * The contents of this header is limited to identifiers specified in the
38 * C Standard. Any new identifiers specified in future amendments to the
39 * C Standard must be placed in this header. If these new identifiers
40 * are required to also be in the C++ Standard "std" namespace, then for
41 * anything other than macro definitions, corresponding "using" directives
42 * must also be added to <ctype.h>.
43 */

44 #ifndef _ISO_CTYPE_ISO_H
45 #define _ISO_CTYPE_ISO_H

47 #include <sys/feature_tests.h>

49 #ifdef __cplusplus
50 extern "C" {
51 #endif

53 #define _U      0x00000001    /* Upper case */
54 #define _L      0x00000002    /* Lower case */
55 #define _N      0x00000004    /* Numeral (digit) */
56 #define _S      0x00000008    /* Spacing character */
57 #define _P      0x00000010    /* Punctuation */
```

new/usr/src/head/iso/ctype\_iso.h

2

```
58 #define _C      0x00000020    /* Control character */
59 #define _B      0x00000040    /* Blank */
60 #define _X      0x00000080    /* hexadecimal digit */

62 #define _ISUPPER      _U
63 #define _ISLOWER      _L
64 #define _ISDIGIT      _N
65 #define _ISSPACE      _S
66 #define _ISPUNCT      _P
67 #define _ISCNTRL      _C
68 #define _ISBLANK      _B
69 #define _ISXDIGIT      _X
70 #define _ISGRAPH      0x00002000
71 #define _ISALPHA      0x00004000
72 #define _ISPRINT      0x00008000
73 #define _ISALNUM      (_ISALPHA | _ISDIGIT)

75 extern unsigned char      __ctype[];
76 extern unsigned int      *__ctype_mask;
77 extern int                *__trans_upper;
78 extern int                *__trans_lower;

82 #if defined(__STDC__)

80 #if __cplusplus >= 199711L
81 namespace std {
82 #endif

84 /*
85 * These used to be macros, which while more efficient, precludes operation
86 * with thread specific locales. The old macros will still work, but new
87 * code compiles to use functions. This is specifically permitted by the
88 * various standards. Only _tolower and _toupper were required to be
89 * delivered in macro form.
90 */
91 extern int isalnum(int);
92 extern int isalpha(int);
93 extern int iscntrl(int);
94 extern int isdigit(int);
95 extern int isgraph(int);
96 extern int islower(int);
97 extern int isprint(int);
98 extern int ispunct(int);
99 extern int isspace(int);
100 extern int isupper(int);
101 extern int isxdigit(int);
102 #if defined(_XPG6) || defined(_STDC_C99) || !defined(_STRICT_SYMBOLS)
103 extern int isblank(int);
104 #endif

106 extern int tolower(int);
107 extern int toupper(int);

109 #if __cplusplus >= 199711L
110 } /* end of namespace std */
111 #endif

117 #else /* defined(__STDC__) */

119 #if !defined(__lint)

121 extern int isalpha();
122 extern int isupper();
123 extern int islower();
124 extern int isdigit();
125 extern int isxdigit();
```

```
126 extern int isalnum();
127 extern int isspace();
128 extern int ispunct();
129 extern int isprint();
130 extern int isgraph();
131 extern int iscntrl();
132 extern int isblank();

134 #endif /* !defined(__lint) */

136 #endif /* defined(__STDC__) */

113 #ifdef __cplusplus
114 }
_____unchanged_portion_omitted_
```

new/usr/src/head/iso/locale\_iso.h

1

```
*****
3175 Sat Aug  2 23:27:06 2014
new/usr/src/head/iso/locale_iso.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved      */

33 /*
34 * An application should not include this header directly.  Instead it
35 * should be included only through the inclusion of other Sun headers.
36 *
37 * The contents of this header is limited to identifiers specified in the
38 * C Standard.  Any new identifiers specified in future amendments to the
39 * C Standard must be placed in this header.  If these new identifiers
40 * are required to also be in the C++ Standard "std" namespace, then for
41 * anything other than macro definitions, corresponding "using" directives
42 * must also be added to <locale.h>.
43 */

45 #ifndef _ISO_LOCALE_ISO_H
46 #define _ISO_LOCALE_ISO_H

46 #pragma ident      "%Z%M% %I%      %E% SMI"

48 #include <sys/feature_tests.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

54 #if __cplusplus >= 199711L
55 namespace std {
56 #endif

58 struct lconv {
59     char *decimal_point;
```

new/usr/src/head/iso/locale\_iso.h

2

```
60     char *thousands_sep;
61     char *grouping;
62     char *int_curr_symbol;
63     char *currency_symbol;
64     char *mon_decimal_point;
65     char *mon_thousands_sep;
66     char *mon_grouping;
67     char *positive_sign;
68     char *negative_sign;
69     char int_frac_digits;
70     char frac_digits;
71     char p_cs_precedes;
72     char p_sep_by_space;
73     char n_cs_precedes;
74     char n_sep_by_space;
75     char p_sign_posn;
76     char n_sign_posn;

78 /*
79 * New in IEEE Std 1003.1-2001 for alignment with the ISO/IEC 9899:1999
80 * standard.  Namespace and binary compatibility dictate that visibility
81 * of these new members be limited.  Visibility is limited to a strictly
82 * conforming ANSI C environment (-Xc) or if _LCONV_C99 is defined.
83 */
84 #if (defined(_STRICT_STDC) && defined(_STDC_C99)) || defined(_LCONV_C99)
85     char int_p_cs_precedes;
86     char int_p_sep_by_space;
87     char int_n_cs_precedes;
88     char int_n_sep_by_space;
89     char int_p_sign_posn;
90     char int_n_sign_posn;
91 #endif
92 };

94 #define LC_CTYPE      0
95 #define LC_NUMERIC    1
96 #define LC_TIME       2
97 #define LC_COLLATE    3
98 #define LC_MONETARY   4
99 #define LC_MESSAGES   5
100 #define LC_ALL        6

102 #ifndef NULL
103 #if defined(_LP64)
104 #define NULL      0L
105 #else
106 #define NULL      0
107 #endif
108 #endif

110 #if      defined(__STDC__)
110 extern char      *setlocale(int, const char *);
111 extern struct lconv *localeconv(void);
112 #else
114 extern char      *setlocale();
115 extern struct lconv *localeconv();
116 #endif

113 #if __cplusplus >= 199711L
114 }
    unchanged_portion_omitted
```

new/usr/src/head/iso/setjmp\_iso.h

1

```
*****
3171 Sat Aug  2 23:27:06 2014
new/usr/src/head/iso/setjmp_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */

32 /*
33 * An application should not include this header directly. Instead it
34 * should be included only through the inclusion of other Sun headers.
35 *
36 * The contents of this header is limited to identifiers specified in the
37 * C Standard. Any new identifiers specified in future amendments to the
38 * C Standard must be placed in this header. If these new identifiers
39 * are required to also be in the C++ Standard "std" namespace, then for
40 * anything other than macro definitions, corresponding "using" directives
41 * must also be added to <setjmp.h>.
42 */

44 #ifndef _ISO_SETJMP_ISO_H
45 #define _ISO_SETJMP_ISO_H

47 #include <sys/feature_tests.h>

49 #ifdef __cplusplus
50 extern "C" {
51 #endif

53 #ifndef _JBLEN

55 /*
56 * The sizes of the jump-buffer (_JBLEN) and the sigjump-buffer
57 * (_SIGJBLEN) are defined by the appropriate, processor specific,
58 * ABI.
59 */
60 #if defined(__amd64)
```

new/usr/src/head/iso/setjmp\_iso.h

2

```
61 #define _JBLEN 8 /* ABI value */
62 #define _SIGJBLEN 128 /* ABI value */
63 #elif defined(__i386)
64 #define _JBLEN 10 /* ABI value */
65 #define _SIGJBLEN 128 /* ABI value */
66 #elif defined(__sparcv9)
67 #define _JBLEN 12 /* ABI value */
68 #define _SIGJBLEN 19 /* ABI value */
69 #elif defined(__sparc)
70 #define _JBLEN 12 /* ABI value */
71 #define _SIGJBLEN 19 /* ABI value */
72 #else
73 #error "ISA not supported"
74 #endif

76 #if __cplusplus >= 199711L
77 namespace std {
78 #endif

80 #if defined(__i386) || defined(__amd64) || \
81     defined(__sparc) || defined(__sparcv9)
82 #if defined(_LP64) || defined(_I32LPx)
83 typedef long jmp_buf[_JBLEN];
84 #else
85 typedef int jmp_buf[_JBLEN];
86 #endif
87 #else
88 #error "ISA not supported"
89 #endif

90 #if defined(__STDC__)

91 extern int setjmp(jmp_buf) __RETURNS_TWICE;
92 #pragma unknown_control_flow(setjmp)
93 extern int _setjmp(jmp_buf) __RETURNS_TWICE;
94 #pragma unknown_control_flow(_setjmp)
95 extern void longjmp(jmp_buf, int) __NORETURN;
96 extern void _longjmp(jmp_buf, int) __NORETURN;

99 #else

101 extern int setjmp() __RETURNS_TWICE;
102 #pragma unknown_control_flow(setjmp)
103 extern int _setjmp() __RETURNS_TWICE;
104 #pragma unknown_control_flow(_setjmp)
105 extern void longjmp();
106 extern void _longjmp();

108 #endif /* __STDC__ */

98 #if __cplusplus >= 199711L
99 }
    unchanged_portion_omitted_
```



new/usr/src/head/iso/signal\_iso.h

1

```
*****
2076 Sat Aug 2 23:27:06 2014
new/usr/src/head/iso/signal_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved      */

26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright (c) 1998-1999, by Sun Microsystems, Inc.
30 * All rights reserved.
31 */

33 /*
34 * An application should not include this header directly.  Instead it
35 * should be included only through the inclusion of other Sun headers.
36 *
37 * The contents of this header is limited to identifiers specified in the
38 * C Standard.  Any new identifiers specified in future amendments to the
39 * C Standard must be placed in this header.  If these new identifiers
40 * are required to also be in the C++ Standard "std" namespace, then for
41 * anything other than macro definitions, corresponding "using" directives
42 * must also be added to <signal.h>.
43 */

45 #ifndef _ISO_SIGNAL_ISO_H
46 #define _ISO_SIGNAL_ISO_H

46 #pragma ident      "%Z%M% %I%      %E% SMI"
47 /* SVr4.0 1.5.3.4 */

48 #include <sys/iso/signal_iso.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

54 #if __cplusplus >= 199711L
55 namespace std {
56 #endif

58 typedef int      sig_atomic_t;
```

new/usr/src/head/iso/signal\_iso.h

2

```
61 #if defined(__STDC__)

60 #ifdef __cplusplus
61 extern "C" SIG_PF signal(int, SIG_PF);
62 #else
63 extern void (*signal(int, void (*)(int)))(int);
64 #endif
65 extern int raise(int);

70 #else /* __STDC__ */

72 extern void(*signal())();
73 extern int raise();

75 #endif /* __STDC__ */

67 #if __cplusplus >= 199711L
68 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/iso/stdio\_c99.h

1

```
*****
3236 Sat Aug  2 23:27:06 2014
new/usr/src/head/iso/stdio_c99.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */
28
29 /*
30 * An application should not include this header directly. Instead it
31 * should be included only through the inclusion of other Sun headers.
32 *
33 * The contents of this header is limited to identifiers specified in
34 * the C99 standard and in conflict with the C++ implementation of the
35 * standard header. The C++ standard may adopt the C99 standard at
36 * which point it is expected that the symbols included here will
37 * become part of the C++ std namespace.
38 */
39
40 #ifndef _ISO_STDIO_C99_H
41 #define _ISO_STDIO_C99_H
42
43 #pragma ident      "%Z%M% %I%      %E% SMI"
44
45 #ifdef __cplusplus
46 extern "C" {
47 #endif
48
49 /*
50 * The following have been added as a result of the ISO/IEC 9899:1999
51 * standard. For a strictly conforming C application, visibility is
52 * contingent on the value of __STDC_VERSION__ (see sys/feature_tests.h).
53 * For non-strictly conforming C applications, there are no restrictions
54 * on the C namespace.
55 */
56
57 #if defined(__EXTENSIONS__) || defined(_STDC_C99) || \
58     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
59 #if !defined(_LP64) && !defined(_LONGLONG_TYPE)
60 #ifdef __PRAGMA_REDEFINE_EXTNAME
```

new/usr/src/head/iso/stdio\_c99.h

2

```
60 #pragma redefine_extname snprintf      _snprintf_c89
61 #pragma redefine_extname vsnprintf     _vsnprintf_c89
62 #pragma redefine_extname vfscanf      _vfscanf_c89
63 #pragma redefine_extname vscanf       _vscanf_c89
64 #pragma redefine_extname vsscanf      _vsscanf_c89
65 #else
66 #define snprintf      _snprintf_c89
67 #define vsnprintf     _vsnprintf_c89
68 #define vfscanf       _vfscanf_c89
69 #define vscanf        _vscanf_c89
70 #define vsscanf       _vsscanf_c89
71 #endif
72 #endif /* !defined(_LP64) && !defined(_LONGLONG_TYPE) */
73
74 #ifdef __STDC__
75 extern int vfscanf(FILE *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, __va_list);
76 extern int vscanf(const char *_RESTRICT_KYWD, __va_list);
77 extern int vsscanf(const char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
78                  __va_list);
79 #else
80 extern int vfscanf();
81 extern int vscanf();
82 extern int vsscanf();
83 #endif /* __STDC__ */
84 #endif /* defined(__EXTENSIONS__) ... */
85 #if defined(__EXTENSIONS__) || defined(_STDC_C99) || \
86     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
87     defined(_XPG5)
88 #ifdef __STDC__
89 extern int snprintf(char *_RESTRICT_KYWD, size_t, const char *_RESTRICT_KYWD,
90                  ...);
91 extern int vsnprintf(char *_RESTRICT_KYWD, size_t, const char *_RESTRICT_KYWD,
92                   __va_list);
93 #else
94 extern int snprintf();
95 extern int vsnprintf();
96 #endif /* __STDC__ */
97
98 #endif /* defined(__EXTENSIONS__) || defined(_STDC_C99) ... */
99
100 #ifdef __cplusplus
101 }
102 #endif
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```

new/usr/src/head/iso/stdio\_iso.h

1

```
*****
9798 Sat Aug  2 23:27:06 2014
new/usr/src/head/iso/stdio_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved      */

32 /*
33 * An application should not include this header directly.  Instead it
34 * should be included only through the inclusion of other Sun headers.
35 *
36 * The contents of this header is limited to identifiers specified in the
37 * C Standard.  Any new identifiers specified in future amendments to the
38 * C Standard must be placed in this header.  If these new identifiers
39 * are required to also be in the C++ Standard "std" namespace, then for
40 * anything other than macro definitions, corresponding "using" directives
41 * must also be added to <stdio.h>.
42 */

44 /*
45 * User-visible pieces of the ANSI C standard I/O package.
46 */

48 #ifndef _ISO_STDIO_ISO_H
49 #define _ISO_STDIO_ISO_H

51 #include <sys/feature_tests.h>
52 #include <sys/va_list.h>
53 #include <stdio_tag.h>
54 #include <stdio_impl.h>

56 /*
57 * If feature test macros are set that enable interfaces that use types
58 * defined in <sys/types.h>, get those types by doing the include.
59 *
60 * Note that in asking for the interfaces associated with this feature test
61 * macro one also asks for definitions of the POSIX types.
```

new/usr/src/head/iso/stdio\_iso.h

2

```
62 */

64 #ifdef __cplusplus
65 extern "C" {
66 #endif

68 #if !defined(_LP64) && (_FILE_OFFSET_BITS == 64 || defined(_LARGEFILE64_SOURCE))
69 /*
70  * The following typedefs are adopted from ones in <sys/types.h> (with leading
71  * underscores added to avoid polluting the ANSI C name space).  See the
72  * commentary there for further explanation.
73  */
74 #if defined(_LONGLONG_TYPE)
75 typedef long long      __longlong_t;
76 #else
77 /* used to reserve space and generate alignment */
78 typedef union {
79     double   _d;
80     int      _l[2];
81 } __longlong_t;
82 unchanged portion omitted
111 #endif /* end of namespace std */

113 #ifndef NULL
114 #if defined(_LP64)
115 #define NULL      0L
116 #else
117 #define NULL      0
118 #endif
119 #endif

121 #define BUFSIZ    1024

123 /*
124  * The value of _NFILE is defined in the Processor Specific ABI.  The value
125  * is chosen for historical reasons rather than for truly processor related
126  * attribute.  Note that the SPARC Processor Specific ABI uses the common
127  * UNIX historical value of 20 so it is allowed to fall through.
128  */
129 #if defined(__i386)
130 #define _NFILE    60      /* initial number of streams: Intel x86 ABI */
131 #else
132 #define _NFILE    20      /* initial number of streams: SPARC ABI and default */
133 #endif

135 #define _SBFSIZ   8      /* compatibility with shared libs */

137 #define _IOFBF    0000   /* full buffered */
138 #define _IOLBF    0100   /* line buffered */
139 #define _IONBF    0004   /* not buffered */
140 #define _IOEOF    0020   /* EOF reached on read */
141 #define _IOERR    0040   /* I/O error from system */

143 #define _IOREAD   0001   /* currently reading */
144 #define _IOWRT    0002   /* currently writing */
145 #define _IORW     0200   /* opened for reading and writing */
146 #define _IOMYBUF  0010   /* stdio malloc()'d buffer */

148 #ifndef EOF
149 #define EOF        (-1)
150 #endif

152 #define FOPEN_MAX    _NFILE
153 #define FILENAME_MAX 1024 /* max # of characters in a path name */

155 #define SEEK_SET     0
```

```

156 #define SEEK_CUR      1
157 #define SEEK_END      2
158 #define TMP_MAX       17576 /* 26 * 26 * 26 */

160 #define L_tmpnam       25 /* (sizeof(P_tmpdir) + 15) */

160 #if defined(__STDC__)
162 extern __FILE __iob[_NFILE];
163 #define stdin (&__iob[0])
164 #define stdout (&__iob[1])
165 #define stderr (&__iob[2])
165 #else
166 extern __FILE __iob[_NFILE];
167 #define stdin (&__iob[0])
168 #define stdout (&__iob[1])
169 #define stderr (&__iob[2])
170 #endif /* __STDC__ */

167 #if __cplusplus >= 199711L
168 namespace std {
169 #endif

171 #if !defined(_LP64) && !defined(_LONGLONG_TYPE)

173 #ifndef __PRAGMA_REDEFINE_EXTNAME
174 #pragma redefine_extname fprintf _fprintf_c89
175 #pragma redefine_extname printf _printf_c89
176 #pragma redefine_extname sprintf _sprintf_c89
177 #pragma redefine_extname vfprintf _vfprintf_c89
178 #pragma redefine_extname vprintf _vprintf_c89
179 #pragma redefine_extname vsprintf _vsprintf_c89
180 #pragma redefine_extname fscanf _fscanf_c89
181 #pragma redefine_extname scanf _scanf_c89
182 #pragma redefine_extname sscanf _sscanf_c89
183 #else
184 #define fprintf _fprintf_c89
185 #define printf _printf_c89
186 #define sprintf _sprintf_c89
187 #define vfprintf _vfprintf_c89
188 #define vprintf _vprintf_c89
189 #define vsprintf _vsprintf_c89
190 #define fscanf _fscanf_c89
191 #define scanf _scanf_c89
192 #define sscanf _sscanf_c89
193 #endif

195 #endif /* !defined(_LP64) && !defined(_LONGLONG_TYPE) */

202 #if defined(__STDC__)

197 extern int remove(const char *);
198 extern int rename(const char *, const char *);
199 extern FILE *tmpfile(void);
200 extern char *tmpnam(char *);
201 extern int fclose(FILE *);
202 extern int fflush(FILE *);
203 extern FILE *fopen(const char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD);
204 extern FILE *freopen(const char *_RESTRICT_KYWD,
205 const char *_RESTRICT_KYWD, FILE *_RESTRICT_KYWD);
206 extern void setbuf(FILE *_RESTRICT_KYWD, char *_RESTRICT_KYWD);
207 extern int setvbuf(FILE *_RESTRICT_KYWD, char *_RESTRICT_KYWD, int,
208 size_t);
209 /* PRINTFLIKE2 */
210 extern int fprintf(FILE *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, ...);
211 /* SCANFLIKE2 */
212 extern int fscanf(FILE *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, ...);

```

```

213 /* PRINTFLIKE1 */
214 extern int printf(const char *_RESTRICT_KYWD, ...);
215 /* SCANFLIKE1 */
216 extern int scanf(const char *_RESTRICT_KYWD, ...);
217 /* PRINTFLIKE2 */
218 extern int sprintf(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, ...);
219 /* SCANFLIKE2 */
220 extern int sscanf(const char *_RESTRICT_KYWD,
221 const char *_RESTRICT_KYWD, ...);
222 extern int vfprintf(FILE *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
223 _va_list);
224 extern int vprintf(const char *_RESTRICT_KYWD, _va_list);
225 extern int vsprintf(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
226 _va_list);
227 extern int fgetc(FILE *);
228 extern char *fgets(char *_RESTRICT_KYWD, int, FILE *_RESTRICT_KYWD);
229 extern int fputc(int, FILE *);
230 extern int fputs(const char *_RESTRICT_KYWD, FILE *_RESTRICT_KYWD);
231 #if (__cplusplus >= 199711L && (defined(_LP64) || defined(_REENTRANT))) || \
232 __cplusplus < 199711L
233 extern int getc(FILE *);
234 extern int putc(int, FILE *);
235 #endif
236 #if (__cplusplus >= 199711L && defined(_REENTRANT)) || \
237 __cplusplus < 199711L
238 extern int getchar(void);
239 extern int putchar(int);
240 #endif
241 extern char *gets(char *);
242 extern int puts(const char *);
243 extern int ungetc(int, FILE *);
244 extern size_t fread(void *_RESTRICT_KYWD, size_t, size_t,
245 FILE *_RESTRICT_KYWD);
246 extern size_t fwrite(const void *_RESTRICT_KYWD, size_t, size_t,
247 FILE *_RESTRICT_KYWD);
248 #if !defined(_lint) || defined(_LP64) || _FILE_OFFSET_BITS == 32
249 extern int fgetpos(FILE *_RESTRICT_KYWD, fpos_t *_RESTRICT_KYWD);
250 extern int fsetpos(FILE *_RESTRICT_KYWD, const fpos_t *);
251 #endif
252 extern int fseek(FILE *, long, int);
253 extern long ftell(FILE *);
254 extern void rewind(FILE *);
255 #if (__cplusplus >= 199711L && (defined(_LP64) || defined(_REENTRANT))) || \
256 __cplusplus < 199711L
257 extern void clearerr(FILE *);
258 extern int feof(FILE *);
259 extern int ferror(FILE *);
260 #endif
261 extern void perror(const char *);

263 #ifndef _LP64
264 extern int _filbuf(FILE *);
265 extern int _flsbuf(int, FILE *);
266 #endif /* _LP64 */

275 #else /* !defined __STDC__ */

277 extern int remove();
278 extern int rename();
279 extern FILE *tmpfile();
280 extern char *tmpnam();
281 extern int fclose();
282 extern int fflush();
283 extern FILE *fopen();
284 extern FILE *freopen();
285 extern void setbuf();

```

```

286 extern int      setvbuf();
287 extern int      fprintf();
288 extern int      fscanf();
289 extern int      printf();
290 extern int      scanf();
291 extern int      sprintf();
292 extern int      sscanf();
293 extern int      vfprintf();
294 extern int      vprintf();
295 extern int      vsprintf();
296 extern int      fgetc();
297 extern char     *fgets();
298 extern int      fputc();
299 extern int      fputs();
300 extern int      getc();
301 extern int      getchar();
302 extern char     *gets();
303 extern int      putc();
304 extern int      putchar();
305 extern int      puts();
306 extern int      ungetc();
307 extern size_t  fread();
308 extern size_t  fwrite();
309 extern int      fgetpos();
310 extern int      fseek();
311 extern int      fsetpos();
312 extern long    ftell();
313 extern void     rewind();
314 extern void     clearerr();
315 extern int      feof();
316 extern int      ferror();
317 extern void     perror();

319 #ifndef _LP64
320 extern int      _filbuf();
321 extern int      _flsbuf();
322 #endif /*      _LP64      */

324 #endif /* __STDC__ */

268 #if __cplusplus >= 199711L
269 }
270 #endif /* end of namespace std */

272 #if !defined(__lint)

274 #if      !defined(_REENTRANT) && !defined(_LP64)

334 #ifdef __STDC__
276 #if __cplusplus >= 199711L
277 namespace std {
278 inline int getc(FILE *p) {
279     return (--p->_cnt < 0 ? __filbuf(p) : (int)*p->_ptr++); }
280 inline int putc(int _x, FILE *p) {
281     return (--p->_cnt < 0 ? __flsbuf(_x, p)
282             : (int)(*p->_ptr++ = (unsigned char) _x)); }
283 }
284 #else /* __cplusplus >= 199711L */
285 #define getc(p)      (--(p)->_cnt < 0 ? __filbuf(p) : (int)*(p)->_ptr++)
286 #define putc(x, p)  (--(p)->_cnt < 0 ? __flsbuf((x), (p)) \
287                     : (int)*(p)->_ptr++ = (unsigned char) (x)))
288 #endif /* __cplusplus >= 199711L */
348 #else /* __STDC__ */
349 #define getc(p)      (--(p)->_cnt < 0 ? _filbuf(p) : (int)*(p)->_ptr++)
350 #define putc(x, p)  (--(p)->_cnt < 0 ? _flsbuf((x), (p)) : \
351                     (int)*(p)->_ptr++ = (unsigned char) (x)))

```

```

352 #endif /* __STDC__ */

290 #endif /* !defined(_REENTRANT) && !defined(_LP64) */

292 #ifndef _REENTRANT

294 #if __cplusplus >= 199711L
295 namespace std {
296 inline int getchar() { return getc(stdin); }
297 inline int putchar(int _x) { return putc(_x, stdout); }
298 }
unchanged_portion_omitted

```

new/usr/src/head/iso/stdlib\_c99.h

1

```
*****
2794 Sat Aug 2 23:27:07 2014
new/usr/src/head/iso/stdlib_c99.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */
28
29 /*
30  * An application should not include this header directly. Instead it
31  * should be included only through the inclusion of other Sun headers.
32  *
33  * The contents of this header is limited to identifiers specified in
34  * the C99 standard and in conflict with the C++ implementation of the
35  * standard header. The C++ standard may adopt the C99 standard at
36  * which point it is expected that the symbols included here will
37  * become part of the C++ std namespace.
38  */
39
40 #ifndef _ISO_STDLIB_C99_H
41 #define _ISO_STDLIB_C99_H
42
43 #pragma ident "%Z%M% %I% %E% SMI"
44
45 #ifdef __cplusplus
46 extern "C" {
47
48 /*
49  * The following have been added as a result of the ISO/IEC 9899:1999
50  * standard. For a strictly conforming C application, visibility is
51  * contingent on the value of __STDC_VERSION__ (see sys/feature_tests.h).
52  * For non-strictly conforming C applications, there are no restrictions
53  * on the C namespace.
54  */
55
56 #if defined(_LONGLONG_TYPE)
57 typedef struct {
58     long long    quot;
59     long long    rem;
60 } lldiv_t;

```

new/usr/src/head/iso/stdlib\_c99.h

2

```
60 #endif /* defined(_LONGLONG_TYPE) */
61
62 #ifdef __STDC__
63
64 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
65     defined(_STDC_C99) || defined(__EXTENSIONS__)
66 extern void _Exit(int);
67 extern float strtod(const char *_RESTRICT_KYWD, char **_RESTRICT_KYWD);
68 extern long double strtold(const char *_RESTRICT_KYWD, char **_RESTRICT_KYWD);
69
70 #if defined(_LONGLONG_TYPE)
71 extern long long atoll(const char *);
72 extern long long labs(long long);
73 extern lldiv_t lldiv(long long, long long);
74 extern long long strtoll(const char *_RESTRICT_KYWD, char **_RESTRICT_KYWD,
75                          int);
76 extern unsigned long long strtoull(const char *_RESTRICT_KYWD,
77                                   char **_RESTRICT_KYWD, int);
78 #endif /* defined(_LONGLONG_TYPE) */
79 #endif /* (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) ... */
80
81 #else /* __STDC__ */
82
83 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
84
85 extern void _Exit();
86 extern float strtod();
87 extern long double strtold();
88
89 #if defined(_LONGLONG_TYPE)
90 extern long long atoll();
91 extern long long labs();
92 extern lldiv_t lldiv();
93 extern long long strtoll();
94 extern unsigned long long strtoull();
95 #endif /* defined(_LONGLONG_TYPE) */
96
97 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6)... */
98
99 #endif /* __STDC__ */
100
101 #ifdef __cplusplus
102 }
103
104 _____
105 unchanged portion omitted

```

new/usr/src/head/iso/stdlib\_iso.h

1

```
*****
5304 Sat Aug 2 23:27:07 2014
new/usr/src/head/iso/stdlib_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */
26 /*
27 * Copyright 2013 Garrett D'Amore <garrett@damore.org>
28 */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved      */

33 /*
34 * An application should not include this header directly. Instead it
35 * should be included only through the inclusion of other Sun headers.
36 *
37 * The contents of this header is limited to identifiers specified in the
38 * C Standard. Any new identifiers specified in future amendments to the
39 * C Standard must be placed in this header. If these new identifiers
40 * are required to also be in the C++ Standard "std" namespace, then for
41 * anything other than macro definitions, corresponding "using" directives
42 * must also be added to <locale.h>.
43 */

45 #ifndef _ISO_STDLIB_ISO_H
46 #define _ISO_STDLIB_ISO_H

48 #include <sys/feature_tests.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

55 #if defined(__STDC__)
54 unsigned char __mb_cur_max(void);
57 #else
58 unsigned char __mb_cur_max();
59 #endif
```

new/usr/src/head/iso/stdlib\_iso.h

2

```
55 #ifndef MB_CUR_MAX
56 #define MB_CUR_MAX      (__mb_cur_max())
57 #endif

59 #if __cplusplus >= 199711L
60 namespace std {
61 #endif

63 typedef struct {
64     int    quot;
65     int    rem;
66 } div_t;
unchanged_portion_omitted

73 #if !defined(_SIZE_T) || __cplusplus >= 199711L
74 #define _SIZE_T
75 #if defined(_LP64) || defined(_I32LPx)
76 typedef unsigned long    size_t;          /* size of something in bytes */
77 #else
78 typedef unsigned int     size_t;         /* (historical version) */
79 #endif
80 #endif /* !_SIZE_T */

82 #ifndef NULL
83 #if defined(_LP64)
84 #define NULL    0L
85 #else
86 #define NULL    0
87 #endif
88 #endif

90 #define EXIT_FAILURE    1
91 #define EXIT_SUCCESS    0
92 #define RAND_MAX        32767

94 /*
95  * wchar_t is a built-in type in standard C++ and as such is not
96  * defined here when using standard C++. However, the GNU compiler
97  * fixincludes utility nonetheless creates its own version of this
98  * header for use by gcc and g++. In that version it adds a redundant
99  * guard for __cplusplus. To avoid the creation of a gcc/g++ specific
100 * header we need to include the following magic comment:
101 *
102 * we must use the C++ compiler's type
103 *
104 * The above comment should not be removed or changed until GNU
105 * gcc/fixinc/inclhack.def is updated to bypass this header.
106 */
107 #if !defined(__cplusplus) || (__cplusplus < 199711L && !defined(__GNUG__))
108 #ifndef _WCHAR_T
109 #define _WCHAR_T
110 #if defined(_LP64)
111 typedef int    wchar_t;
112 #else
113 typedef long   wchar_t;
114 #endif
115 #endif /* !_WCHAR_T */
116 #endif /* !defined(__cplusplus) ... */

123 #if defined(__STDC__)

118 extern void abort(void) __NORETURN;
119 extern int abs(int);
120 extern int atexit(void (*)(void));
121 extern double atof(const char *);
122 extern int atoi(const char *);
```

```
123 extern long int atol(const char *);
124 extern void *bsearch(const void *, const void *, size_t, size_t,
125     int (*)(const void *, const void *));
126 #if __cplusplus >= 199711L && defined(__SUNPRO_CC)
127 extern "C++" {
128     void *bsearch(const void *, const void *, size_t, size_t,
129         int (*)(const void *, const void *));
130 }
```

unchanged portion omitted

```
168 #endif /* __cplusplus */
```

```
177 #else /* not __STDC__ */
```

```
179 extern void abort();
180 extern int abs();
181 extern int atexit();
182 extern double atof();
183 extern int atoi();
184 extern long int atol();
185 extern void *bsearch();
186 extern void *calloc();
187 extern div_t div();
188 extern void exit();
189 extern void free();
190 extern char *getenv();
191 extern long int labs();
192 extern ldiv_t ldiv();
193 extern void *malloc();
194 extern int mblen();
195 extern size_t mbstowcs();
196 extern int mbtowc();
197 extern void qsort();
198 extern int rand();
199 extern void *realloc();
200 extern void srand();
201 extern double strtod();
202 extern long int strtol();
203 extern unsigned long strtoul();
204 extern int system();
205 extern int wctomb();
206 extern size_t wcstombs();
```

```
208 #endif /* __STDC__ */
```

```
170 #if __cplusplus >= 199711L
171 }
```

unchanged portion omitted



new/usr/src/head/iso/string\_iso.h

1

```
*****
5037 Sat Aug 2 23:27:07 2014
new/usr/src/head/iso/string_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 /*
34  * An application should not include this header directly. Instead it
35  * should be included only through the inclusion of other Sun headers.
36  *
37  * The contents of this header is limited to identifiers specified in the
38  * C Standard. Any new identifiers specified in future amendments to the
39  * C Standard must be placed in this header. If these new identifiers
40  * are required to also be in the C++ Standard "std" namespace, then for
41  * anything other than macro definitions, corresponding "using" directives
42  * must also be added to <string.h>.
43  */

45 #ifndef _ISO_STRING_ISO_H
46 #define _ISO_STRING_ISO_H

46 #pragma ident      "%Z%M% %I%      %E% SMI"

48 #include <sys/feature_tests.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

54 #if __cplusplus >= 199711L
55 namespace std {
56 #endif

58 #if !defined(_SIZE_T) || __cplusplus >= 199711L
59 #define _SIZE_T
```

new/usr/src/head/iso/string\_iso.h

2

```
60 #if defined(_LP64) || defined(_I32LPx)
61 typedef unsigned long      size_t;      /* size of something in bytes */
62 #else
63 typedef unsigned int      size_t;      /* (historical version) */
64 #endif
65 #endif /* !_SIZE_T */

67 #ifndef NULL
68 #if defined(_LP64)
69 #define NULL      0L
70 #else
71 #define NULL      0
72 #endif
73 #endif

75 #if defined(__STDC__)

75 extern int memcmp(const void *, const void *, size_t);
76 extern void *memcpy(void *_RESTRICT_KYWD, const void *_RESTRICT_KYWD, size_t);
77 extern void *memmove(void *, const void *, size_t);
78 extern void *memset(void *, int, size_t);
79 extern char *strcat(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD);
80 extern int strcmp(const char *, const char *);
81 extern char *strcpy(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD);
82 extern int strcoll(const char *, const char *);
83 extern size_t strcspn(const char *, const char *);
84 extern char *strerror(int);
85 extern size_t strlen(const char *);
86 extern char *strncat(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, size_t);
87 extern int strncmp(const char *, const char *, size_t);
88 extern char *strncpy(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, size_t);
89 extern size_t strspn(const char *, const char *);
90 extern char *strtok(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD);
91 extern size_t strxfrm(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, size_t);

93 /*
94  * The C++ Standard (ISO/IEC 14882:1998) specifies that each of the
95  * function signatures for the following functions be replaced by
96  * two declarations, both of which have the same behavior.
97  */
98 #if __cplusplus >= 199711L
99 extern const void *memchr(const void *, int, size_t);
100 #ifndef _MEMCHR_INLINE
101 #define _MEMCHR_INLINE
102 extern "C++" {
103     inline void *memchr(void * __s, int __c, size_t __n) {
104         return (void *)memchr((const void *)__s, __c, __n);
105     }
106 }
107
108 unchanged portion omitted
143 #endif /* _STRSTR_INLINE */
144 #else /* __cplusplus >= 199711L */
145 extern void *memchr(const void *, int, size_t);
146 extern char *strchr(const char *, int);
147 extern char *strpbrk(const char *, const char *);
148 extern char *strrchr(const char *, int);
149 extern char *strstr(const char *, const char *);
150 #endif /* __cplusplus >= 199711L */

154 #else /* __STDC__ */

156 extern void *memchr();
157 extern int memcmp();
158 extern void *memcpy();
159 extern void *memmove();
160 extern void *memset();
```

```
161 extern char *strcat();
162 extern char *strchr();
163 extern int strcmp();
164 extern int strcoll();
165 extern char *strcpy();
166 extern size_t strcspn();
167 extern char *strerror();
168 extern size_t strlen();
169 extern char *strncat();
170 extern int strncmp();
171 extern char *strncpy();
172 extern char *strpbrk();
173 extern char *strrchr();
174 extern size_t strspn();
175 extern char *strstr();
176 extern char *strtok();
177 extern size_t strxfrm();
```

```
179 #endif /* __STDC__ */
```

```
152 #if __cplusplus >= 199711L
153 }
```

```
unchanged_portion_omitted_
```

new/usr/src/head/iso/time\_iso.h

1

```
*****
3087 Sat Aug 2 23:27:07 2014
new/usr/src/head/iso/time_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved      */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */

32 /*
33 * An application should not include this header directly. Instead it
34 * should be included only through the inclusion of other Sun headers.
35 *
36 * The contents of this header is limited to identifiers specified in the
37 * C Standard. Any new identifiers specified in future amendments to the
38 * C Standard must be placed in this header. If these new identifiers
39 * are required to also be in the C++ Standard "std" namespace, then for
40 * anything other than macro definitions, corresponding "using" directives
41 * must also be added to <time.h.h>.
42 */

44 #ifndef _ISO_TIME_ISO_H
45 #define _ISO_TIME_ISO_H

46 #pragma ident      "%Z%M% %I%      %E% SMI" /* SVr4.0 1.18 */

47 #include <sys/feature_tests.h>

49 #ifdef __cplusplus
50 extern "C" {
51 #endif

53 #if __cplusplus >= 199711L
54 namespace std {
55 #endif

57 #ifndef NULL
58 #if defined(_LP64)
```

new/usr/src/head/iso/time\_iso.h

2

```
59 #define NULL      0L
60 #else
61 #define NULL      0
62 #endif
63 #endif

65 #if !defined(_SIZE_T) || __cplusplus >= 199711L
66 #define _SIZE_T
67 #if defined(_LP64) || defined(_I32LPx)
68 typedef unsigned long      size_t;          /* size of something in bytes */
69 #else
70 typedef unsigned          size_t;          /* (historical version) */
71 #endif
72 #endif /* !_SIZE_T */

74 #if !defined(_CLOCK_T) || __cplusplus >= 199711L
75 #define _CLOCK_T
76 typedef long      clock_t;
77 #endif /* !_CLOCK_T */

79 #if !defined(_TIME_T) || __cplusplus >= 199711L
80 #define _TIME_T
81 typedef long      time_t;
82 #endif /* !_TIME_T */

84 #define CLOCKS_PER_SEC      1000000L

86 struct tm {          /* see ctime(3) */
87     int      tm_sec;
88     int      tm_min;
89     int      tm_hour;
90     int      tm_mday;
91     int      tm_mon;
92     int      tm_year;
93     int      tm_wday;
94     int      tm_yday;
95     int      tm_isdst;
96 };

100 #if defined(__STDC__)

99 extern char *asctime(const struct tm *);
100 extern clock_t clock(void);
101 extern char *ctime(const time_t *);
102 extern double difftime(time_t, time_t);
103 extern struct tm *gmtime(const time_t *);
104 extern struct tm *localtime(const time_t *);
105 extern time_t mktime(struct tm *);
106 extern time_t time(time_t *);
107 extern size_t strftime(char *_RESTRICT_KYWD, size_t, const char *_RESTRICT_KYWD,
108     const struct tm *_RESTRICT_KYWD);

113 #else /* __STDC__ */

115 extern char *asctime();
116 extern clock_t clock();
117 extern char *ctime();
118 extern double difftime();
119 extern struct tm *gmtime();
120 extern struct tm *localtime();
121 extern time_t mktime();
122 extern time_t time();
123 extern size_t strftime();

125 #endif /* __STDC__ */
```

new/usr/src/head/iso/time\_iso.h

3

```
110 #if __cplusplus >= 199711L
111 }
_____unchanged_portion_omitted_
```

```

*****
2925 Sat Aug 2 23:27:07 2014
new/usr/src/head/iso/wchar_c99.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */
28
29 /*
30  * An application should not include this header directly. Instead it
31  * should be included only through the inclusion of other Sun headers.
32  *
33  * The contents of this header is limited to identifiers specified in
34  * the C99 standard and in conflict with the C++ implementation of the
35  * standard header. The C++ standard may adopt the C99 standard at
36  * which point it is expected that the symbols included here will
37  * become part of the C++ std namespace.
38  */
39
40 #ifndef _ISO_WCHAR_C99_H
41 #define _ISO_WCHAR_C99_H
42
43 #pragma ident "%Z%M% %I% %E% SMI"
44
45 #ifdef __cplusplus
46 extern "C" {
47
48 /* Introduced in ISO/IEC 9899:1999 standard */
49
50 #if !defined(_LP64) && !defined(_LONGLONG_TYPE)
51 #ifdef __PRAGMA_REDEFINE_EXTNAME
52 #pragma redefine_extname vfwscanf _vfwscanf_c89
53 #pragma redefine_extname vwscanf _vwscanf_c89
54 #else
55 #define vfwscanf _vfwscanf_c89
56 #define vwscanf _vwscanf_c89
57 #define wscanf _wscanf_c89
58 #endif
59 #endif /* !defined(_LP64) && !defined(_LONGLONG_TYPE) */

```

```

61 #ifdef __STDC__
62
63 #if defined(_STDC_C99) || \
64     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
65     defined(_XPG6) || defined(__EXTENSIONS__)
66 extern int vfwscanf(_FILE *_RESTRICT_KYWD, const wchar_t *_RESTRICT_KYWD,
67                   __va_list);
68 extern int vwscanf(const wchar_t *_RESTRICT_KYWD, const wchar_t *_RESTRICT_KYWD,
69                   __va_list);
70 extern float wcstof(const wchar_t *_RESTRICT_KYWD,
71                    wchar_t **_RESTRICT_KYWD);
72 #if defined(_LONGLONG_TYPE)
73 extern long double wcstold(const wchar_t *_RESTRICT_KYWD,
74                           wchar_t **_RESTRICT_KYWD);
75 extern long long wcstoll(const wchar_t *_RESTRICT_KYWD,
76                          wchar_t **_RESTRICT_KYWD, int);
77 extern unsigned long long wcstoull(const wchar_t *_RESTRICT_KYWD,
78                                    wchar_t **_RESTRICT_KYWD, int);
79 #endif /* defined(_LONGLONG_TYPE) */
80 #endif /* defined(_STDC_C99) || (!defined(_STRICT_STDC)... */
81
82 #else /* __STDC__ */
83
84 #if !defined(_XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
85 extern int vfwscanf();
86 extern int vwscanf();
87 extern float wcstof();
88 extern long double wcstold();
89 extern long int wcstoll();
90 extern long int wcstoull();
91 #endif /* !defined(_XOPEN_OR_POSIX) || defined(_XPG6) ... */
92
93 #endif /* __STDC__ */
94
95 #ifdef __cplusplus
96 }
97
98 unchanged_portion_omitted

```

new/usr/src/head/iso/wchar\_iso.h

1

```
*****
12492 Sat Aug  2 23:27:07 2014
new/usr/src/head/iso/wchar_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */
28
29 /*
30  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
31  */
32
33 /*
34  * An application should not include this header directly.  Instead it
35  * should be included only through the inclusion of other Sun headers.
36  *
37  * The contents of this header is limited to identifiers specified in the
38  * C Standard.  Any new identifiers specified in future amendments to the
39  * C Standard must be placed in this header.  If these new identifiers
40  * are required to also be in the C++ Standard "std" namespace, then for
41  * anything other than macro definitions, corresponding "using" directives
42  * must also be added to <wchar.h>.
43  */
44
45 #ifndef _ISO_WCHAR_ISO_H
46 #define _ISO_WCHAR_ISO_H
47
48 #include <sys/feature_tests.h>
49 #include <stdio_tag.h>
50 #include <wchar_impl.h>
51 #include <iso/time_iso.h>
52
53 #if (defined(__cplusplus) && (__cplusplus - 0 < 54321L)) || \
54     (!defined(__cplusplus) && !defined(_STRICT_STDC)) || \
55     defined(__EXTENSIONS__)
56 #include <stdio.h>
57 #endif /* (defined(__cplusplus) && (__cplusplus - 0 < 54321L)) ... */
58
59 #if !defined(_STRICT_STDC) || defined(__EXTENSIONS__)
60 #include <ctype.h>
61 #include <stddef.h>
62
```

new/usr/src/head/iso/wchar\_iso.h

2

```
58 #endif /* !defined(_STRICT_STDC) || defined(__EXTENSIONS__) */
59
60 #include <sys/va_list.h>
61
62 #ifdef __cplusplus
63 extern "C" {
64 #endif
65
66 #if __cplusplus >= 199711L
67 namespace std {
68 #endif
69
70 /*
71  * wchar_t is a built-in type in standard C++ and as such is not
72  * defined here when using standard C++.  However, the GNU compiler
73  * fixincludes utility nonetheless creates its own version of this
74  * header for use by gcc and g++.  In that version it adds a redundant
75  * guard for __cplusplus.  To avoid the creation of a gcc/g++ specific
76  * header we need to include the following magic comment:
77  *
78  * we must use the C++ compiler's type
79  *
80  * The above comment should not be removed or changed until GNU
81  * gcc/fixinc/inclhack.def is updated to bypass this header.
82  */
83 #if !defined(__cplusplus) || (__cplusplus < 199711L && !defined(__GNU__))
84 #ifndef _WCHAR_T
85 #define _WCHAR_T
86 #endif
87 #if defined(_LP64)
88 typedef int      wchar_t;
89 #else
90 typedef long     wchar_t;
91 #endif
92 #endif /* !defined(__cplusplus) ... */
93
94 #if !defined(_WINT_T) || __cplusplus >= 199711L
95 #define _WINT_T
96 #if defined(_LP64)
97 typedef int      wint_t;
98 #else
99 typedef long     wint_t;
100 #endif
101 #endif /* !defined(_WINT_T) || __cplusplus >= 199711L */
102
103 #if !defined(_SIZE_T) || __cplusplus >= 199711L
104 #define _SIZE_T
105 #if defined(_LP64) || defined(_I32LPx)
106 typedef unsigned long  size_t; /* size of something in bytes */
107 #else
108 typedef unsigned int   size_t; /* (historical version) */
109 #endif
110 #endif /* !defined(_SIZE_T) || __cplusplus >= 199711L */
111
112 #ifndef NULL
113 #if defined(_LP64)
114 #define NULL 0L
115 #else
116 #define NULL 0
117 #endif
118 #endif /* !NULL */
119
120 #ifndef WEOF
121 #if __cplusplus >= 199711L
122 #define WEOF ((std::wint_t)(-1))
123 #else
124
```

## new/usr/src/head/iso/wchar\_iso.h

```

124 #define WEOF      ((wint_t)(-1))
125 #endif
126 #endif /* WEOF */

128 /* not XPG4 and not XPG4v2 */
129 #if !defined(_XPG4) || defined(_XPG5)
130 #ifndef WCHAR_MAX
131 #define WCHAR_MAX      2147483647
132 #endif
133 #ifndef WCHAR_MIN
134 #define WCHAR_MIN      (-2147483647-1)
135 #endif
136 #endif /* not XPG4 and not XPG4v2 */

138 #if !defined(_MBSTATE_T) || __cplusplus >= 199711L
139 #define _MBSTATE_T
140 typedef __mbstate_t      mbstate_t;
141 #endif /* _MBSTATE_T */

143 #if defined(_XPG4) && !defined(_FILEDEFED) || __cplusplus >= 199711L
144 #define _FILEDEFED
145 typedef __FILE FILE;
146 #endif

148 #if !defined(_LP64) && !defined(_LONGLONG_TYPE)

150 #ifdef __PRAGMA_REDEFINE_EXTNAME
151 #pragma redefine_extname fprintf      _fprintf_c89
152 #pragma redefine_extname sprintf      _sprintf_c89
153 #pragma redefine_extname vfprintf    _vfprintf_c89
154 #pragma redefine_extname vsprintf    _vsprintf_c89
155 #pragma redefine_extname vwprintf    _vwprintf_c89
156 #pragma redefine_extname wprintf     _wprintf_c89
157 #pragma redefine_extname fwscanf     _fwscanf_c89
158 #pragma redefine_extname swscanf     _swscanf_c89
159 #pragma redefine_extname wscanf      _wscanf_c89
160 #else
161 #define fprintf        _fprintf_c89
162 #define sprintf        _sprintf_c89
163 #define vfprintf       _vfprintf_c89
164 #define vsprintf       _vsprintf_c89
165 #define vwprintf       _vwprintf_c89
166 #define wprintf        _wprintf_c89
167 #define fwscanf        _fwscanf_c89
168 #define swscanf        _swscanf_c89
169 #define wscanf         _wscanf_c89
170 #endif

172 #endif /* !defined(_LP64) && !defined(_LONGLONG_TYPE) */

174 #if (!defined(_MSE_INT_H))
175 /* not XPG4 and not XPG4v2 */
176 #if !defined(_XPG4) || defined(_XPG5)
177 #ifdef __PRAGMA_REDEFINE_EXTNAME
178 #pragma redefine_extname fgetc      __fgetc_xpg5
179 #pragma redefine_extname getc       __getc_xpg5
180 #pragma redefine_extname getwchar  __getwchar_xpg5
181 #pragma redefine_extname fputc      __fputc_xpg5
182 #pragma redefine_extname putc       __putc_xpg5
183 #pragma redefine_extname putwchar  __putwchar_xpg5
184 #pragma redefine_extname fgetws     __fgetws_xpg5
185 #pragma redefine_extname fputws     __fputws_xpg5
186 #pragma redefine_extname ungetc     __ungetc_xpg5
187 #else /* __PRAGMA_REDEFINE_EXTNAME */
188 extern wint_t __fgetc_xpg5(__FILE *);

```

3

## new/usr/src/head/iso/wchar\_iso.h

```

189 extern wint_t __getwc_xpg5(__FILE *);
190 extern wint_t __getwchar_xpg5(void);
191 extern wint_t __fputc_xpg5(wint_t, __FILE *);
192 extern wint_t __putwc_xpg5(wint_t, __FILE *);
193 extern wint_t __putwchar_xpg5(wint_t);
194 extern wchar_t *__fgetws_xpg5(wchar_t *_RESTRUCT_KYWD, int,
195                               __FILE *_RESTRUCT_KYWD);
196 extern int __fputws_xpg5(const wchar_t *_RESTRUCT_KYWD, __FILE *_RESTRUCT_KYWD);
197 extern wint_t __ungetc_xpg5(wint_t, __FILE *);
201 #else
202 extern wint_t __fgetc_xpg5();
203 extern wint_t __getwc_xpg5();
204 extern wint_t __getwchar_xpg5();
205 extern wint_t __fputc_xpg5();
206 extern wint_t __putwc_xpg5();
207 extern wint_t __putwchar_xpg5();
208 extern wchar_t *__fgetws_xpg5();
209 extern int __fputws_xpg5();
210 extern wint_t __ungetc_xpg5();
211 #endif /* __STDC */
198 #define fgetc      __fgetc_xpg5
199 #define getwc      __getwc_xpg5
200 #define getwchar   __getwchar_xpg5
201 #define fputc      __fputc_xpg5
202 #define putwc      __putwc_xpg5
203 #define putwchar   __putwchar_xpg5
204 #define fgetws     __fgetws_xpg5
205 #define fputws     __fputws_xpg5
206 #define ungetc     __ungetc_xpg5
207 #endif /* __PRAGMA_REDEFINE_EXTNAME */
208 #endif /* not XPG4 and not XPG4v2 */
209 #endif /* defined(_MSE_INT_H) */

225 #ifdef __STDC__

211 extern wint_t fgetc(__FILE *);
212 extern wchar_t *fgetws(wchar_t *_RESTRUCT_KYWD, int, __FILE *_RESTRUCT_KYWD);
213 extern wint_t fputc(wint_t, __FILE *);
214 extern int fputws(const wchar_t *_RESTRUCT_KYWD, __FILE *_RESTRUCT_KYWD);
215 extern wint_t ungetc(wint_t, __FILE *);
216 extern wint_t getwc(__FILE *);
217 extern wint_t getwchar(void);
218 extern wint_t putwc(wint_t, __FILE *);
219 extern wint_t putwchar(wint_t);
220 extern double wcstod(const wchar_t *_RESTRUCT_KYWD, wchar_t **_RESTRUCT_KYWD);
221 extern long wcstol(const wchar_t *_RESTRUCT_KYWD, wchar_t **_RESTRUCT_KYWD,
222                  int);
223 extern unsigned long wcstoul(const wchar_t *_RESTRUCT_KYWD,
224                             wchar_t **_RESTRUCT_KYWD, int);
225 extern wchar_t *wcscat(wchar_t *_RESTRUCT_KYWD, const wchar_t *_RESTRUCT_KYWD);
226 extern int wcsncmp(const wchar_t *, const wchar_t *);
227 extern int wcsncpy(const wchar_t *, const wchar_t *);
228 extern wchar_t *wcscpy(wchar_t *_RESTRUCT_KYWD, const wchar_t *_RESTRUCT_KYWD);
229 extern size_t wcsncpy(const wchar_t *, const wchar_t *);
230 extern size_t wcslen(const wchar_t *);
231 extern wchar_t *wcsncat(wchar_t *_RESTRUCT_KYWD, const wchar_t *_RESTRUCT_KYWD,
232                        size_t);
233 extern int wcsncmp(const wchar_t *, const wchar_t *, size_t);
234 extern wchar_t *wcsncpy(wchar_t *_RESTRUCT_KYWD, const wchar_t *_RESTRUCT_KYWD,
235                        size_t);
236 extern size_t wcsnspn(const wchar_t *, const wchar_t *);
237 extern size_t wcsxfrm(wchar_t *_RESTRUCT_KYWD, const wchar_t *_RESTRUCT_KYWD,
238                      size_t);
239 #if __cplusplus >= 199711L
240 extern const wchar_t *wcschr(const wchar_t *, wchar_t);
241 extern "C++" {

```

4

```

242     inline wchar_t *wcschr(wchar_t *__ws, wchar_t __wc) {
243         return (wchar_t *)wcschr((const wchar_t *)__ws, __wc);
244     }
245 }
unchanged portion omitted
340 #else /* __cplusplus >= 199711L */
341 extern wchar_t *wcsstr(const wchar_t *_RESTRICT_KYWD,
342     const wchar_t *_RESTRICT_KYWD);
343 extern wchar_t *wmemchr(const wchar_t *, wchar_t, size_t);
344 #endif /* __cplusplus >= 199711L */
345 #endif /* not XPG4 and not XPG4v2 */

363 #else /* __STDC__ */

365 extern wint_t fgetwc();
366 extern wchar_t *fgetws();
367 extern wint_t fputwc();
368 extern int fputws();
369 extern wint_t ungetwc();
370 extern wint_t getwc();
371 extern wint_t getwchar();
372 extern wint_t putwc();
373 extern wint_t putwchar();
374 extern wint_t ungetwc();
375 extern double wcstod();
376 extern long wcstol();
377 extern unsigned long wcstoul();
378 extern wchar_t *wscat();
379 extern wchar_t *wcschr();
380 extern int wcsncmp();
381 extern int wscoll();
382 extern wchar_t *wcscpy();
383 extern size_t wcsncpy();
384 extern size_t wcslen();
385 extern wchar_t *wcsncat();
386 extern int wcsncmp();
387 extern wchar_t *wcsncpy();
388 extern wchar_t *wcpbrk();
389 extern wchar_t *wcsrchr();
390 extern size_t wcssp();
391 extern size_t wcsxfrm();

393 #if (!defined(_MSE_INT_H))
394 #if defined(_XPG4) && !defined(_XPG5) /* XPG4 or XPG4v2 */
395 extern wchar_t *wcstok();
396 extern size_t wcsftime();
397 #else /* XPG4 or XPG4v2 */
398 #ifdef __PRAGMA_REDEFINE_EXTNAME
399 #pragma redefine_extname wcstok __wcstok_xpg5
400 #pragma redefine_extname wcsftime __wcsftime_xpg5
401 extern wchar_t *wcstok();
402 extern size_t wcsftime();
403 #else /* __PRAGMA_REDEFINE_EXTNAME */
404 extern wchar_t *__wcstok_xpg5();
405 extern size_t __wcsftime_xpg5();
406 #define wcstok __wcstok_xpg5
407 #define wcsftime __wcsftime_xpg5
408 #endif /* __PRAGMA_REDEFINE_EXTNAME */
409 #endif /* XPG4 or XPG4v2 */
410 #endif /* defined(_MSE_INT_H) */

412 /* not XPG4 and not XPG4v2 */
413 #if (!defined(_XPG4) && !defined(_XPG4_2) || defined(_XPG5))
414 extern wint_t btowc();
415 extern int fwprintf();
416 extern int fwscanf();

```

```

417 extern int fwide();
418 extern int mbsinit();
419 extern size_t mbrlen();
420 extern size_t mbrtowc();
421 extern size_t mbsrtowcs();
422 extern int swprintf();
423 extern int swscanf();
424 extern int vfwprintf();
425 extern int vwprintf();
426 extern int vswprintf();
427 extern size_t wctomb();
428 extern size_t wcsrtombs();
429 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
430 extern size_t wcsnrtombs();
431 #endif

433 extern wchar_t *wcsstr();
434 extern int wctob();
435 extern wchar_t *wmemchr();
436 extern int wmemcmp();
437 extern wchar_t *wmemcpy();
438 extern wchar_t *wmemmove();
439 extern wchar_t *wmemset();
440 extern int wprintf();
441 extern int wscanf();
442 #endif /* not XPG4 and not XPG4v2 */

444 #endif /* __STDC__ */

347 #if __cplusplus >= 199711L
348 }

```

unchanged portion omitted



new/usr/src/head/iso/wctype\_iso.h

1

```
*****
4135 Sat Aug 2 23:27:07 2014
new/usr/src/head/iso/wctype_iso.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*      wctype.h      1.13 89/11/02 SMI; JLE  */
23 /*      from AT&T JAE 2.1      */
24 /*      definitions for international functions  */

26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
30 * Use is subject to license terms.
31 */
32 /*
33 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
34 */

33 /*
34 * An application should not include this header directly. Instead it
35 * should be included only through the inclusion of other Sun headers.
36 *
37 * The contents of this header is limited to identifiers specified in the
38 * C Standard. Any new identifiers specified in future amendments to the
39 * C Standard must be placed in this header. If these new identifiers
40 * are required to also be in the C++ Standard "std" namespace, then for
41 * anything other than macro definitions, corresponding "using" directives
42 * must also be added to <wctype.h>.
43 */

45 #ifndef _ISO_WCTYPE_ISO_H
46 #define _ISO_WCTYPE_ISO_H

48 #include <sys/feature_tests.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

54 #if __cplusplus >= 199711L
55 namespace std {
56 #endif

58 #if !defined(_WINT_T) || __cplusplus >= 199711L
```

new/usr/src/head/iso/wctype\_iso.h

2

```
59 #define _WINT_T
60 #if defined(_LP64)
61 typedef int wint_t;
62 #else
63 typedef long wint_t;
64 #endif
65 #endif /* !defined(_WINT_T) || __cplusplus >= 199711L */

67 #if !defined(_WCTYPE_T) || __cplusplus >= 199711L
68 #define _WCTYPE_T
69 typedef int wctype_t;
70 #endif

72 typedef unsigned int wctrans_t;

74 /* not XPG4 and not XPG4v2 */
75 #if !defined(_XPG4) || defined(_XPG5)
76 #ifndef WEOF
77 #if __cplusplus >= 199711L
78 #define WEOF ((std::wint_t)(-1))
79 #else
80 #define WEOF ((wint_t)(-1))
81 #endif
82 #endif /* WEOF */
83 #endif /* not XPG4 and not XPG4v2 */

86 #ifdef __STDC__
87 extern int iswalnum(wint_t);
88 extern int iswalpunct(wint_t);
89 extern int iswalpha(wint_t);
90 extern int iswcntrl(wint_t);
91 extern int iswdigit(wint_t);
92 extern int iswgraph(wint_t);
93 extern int iswlower(wint_t);
94 extern int iswprint(wint_t);
95 extern int iswpunct(wint_t);
96 extern int iswspace(wint_t);
97 extern int iswupper(wint_t);
98 extern int iswxdigit(wint_t);

99 #if (__cplusplus >= 201103L) || defined(_STDC_C99) || defined(_XPG6) || \
!defined(_STRICT_SYMBOLS)
100 extern int iswblank(wint_t);
101 #endif

102 /* tow* also become functions */
103 extern wint_t towlower(wint_t);
104 extern wint_t towupper(wint_t);
105 extern wctrans_t wctrans(const char *);
106 extern wint_t towctrans(wint_t, wctrans_t);
107 extern int iswctype(wint_t, wctype_t);
108 extern wctype_t wctype(const char *);
109 #else /* __STDC__ */
110 extern int iswalnum();
111 extern int iswalpunct();
112 extern int iswalpha();
113 extern int iswcntrl();
114 extern int iswdigit();
115 extern int iswgraph();
116 extern int iswlower();
117 extern int iswprint();
118 extern int iswpunct();
119 extern int iswspace();
120 extern int iswupper();
121 extern int iswxdigit();
122 /* tow* also become functions */
123 extern wint_t towlower();
124 extern wint_t towupper();
125 extern wctrans_t wctrans();
126 extern wint_t towctrans();
127 extern int iswctype();
128 extern wctype_t wctype();
```

```
126 extern wctrans_t wctrans();
127 extern wint_t towctrans();
128 extern int iswctype();
129 extern wctype_t wctype();
130 #if defined(_XPG6) || !defined(_STRICT_SYMBOLS)
131 extern int iswblank();
132 #endif
133 #endif /* __STDC__ */

110 /* bit definition for character class */

112 #define _E1      0x00000100    /* phonogram (international use) */
113 #define _E2      0x00000200    /* ideogram (international use) */
114 #define _E3      0x00000400    /* English (international use) */
115 #define _E4      0x00000800    /* number (international use) */
116 #define _E5      0x00001000    /* special (international use) */
117 #define _E6      0x00002000    /* other characters (international use) */
118 #define _E7      0x00004000    /* reserved (international use) */
119 #define _E8      0x00008000    /* reserved (international use) */

121 #define _E9      0x00010000
122 #define _E10     0x00020000
123 #define _E11     0x00040000
124 #define _E12     0x00080000
125 #define _E13     0x00100000
126 #define _E14     0x00200000
127 #define _E15     0x00400000
128 #define _E16     0x00800000
129 #define _E17     0x01000000
130 #define _E18     0x02000000
131 #define _E19     0x04000000
132 #define _E20     0x08000000
133 #define _E21     0x10000000
134 #define _E22     0x20000000
135 #define _E23     0x40000000
136 #define _E24     0x80000000

138 #if __cplusplus >= 199711L
139 }
_____unchanged_portion_omitted_____
```

```

*****
4539 Sat Aug 2 23:27:07 2014
new/usr/src/head/langinfo.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 */
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2003 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved      */

30 /*
31 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
32 */

33 #ifndef _LANGINFO_H
34 #define _LANGINFO_H

36 #include <sys/feature_tests.h>
37 #include <nl_types.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 /*
44 * The seven days of the week in their full beauty
45 */

47 #define DAY_1      1      /* sunday */
48 #define DAY_2      2      /* monday */
49 #define DAY_3      3      /* tuesday */
50 #define DAY_4      4      /* wednesday */
51 #define DAY_5      5      /* thursday */
52 #define DAY_6      6      /* friday */
53 #define DAY_7      7      /* saturday */

55 /*
56 * The abbreviated seven days of the week
57 */

```

```

59 #define ABDAY_1    8      /* sun */
60 #define ABDAY_2    9      /* mon */
61 #define ABDAY_3    10     /* tue */
62 #define ABDAY_4    11     /* wed */
63 #define ABDAY_5    12     /* thu */
64 #define ABDAY_6    13     /* fri */
65 #define ABDAY_7    14     /* sat */

67 /*
68 * The full names of the twelve months...
69 */

71 #define MON_1      15     /* january */
72 #define MON_2      16     /* february */
73 #define MON_3      17     /* march */
74 #define MON_4      18     /* april */
75 #define MON_5      19     /* may */
76 #define MON_6      20     /* june */
77 #define MON_7      21     /* july */
78 #define MON_8      22     /* august */
79 #define MON_9      23     /* september */
80 #define MON_10     24     /* october */
81 #define MON_11     25     /* november */
82 #define MON_12     26     /* december */

84 /*
85 * ... and their abbreviated form
86 */

88 #define ABMON_1    27     /* jan */
89 #define ABMON_2    28     /* feb */
90 #define ABMON_3    29     /* mar */
91 #define ABMON_4    30     /* apr */
92 #define ABMON_5    31     /* may */
93 #define ABMON_6    32     /* jun */
94 #define ABMON_7    33     /* jul */
95 #define ABMON_8    34     /* aug */
96 #define ABMON_9    35     /* sep */
97 #define ABMON_10   36     /* oct */
98 #define ABMON_11   37     /* nov */
99 #define ABMON_12   38     /* dec */

101 /*
102 * plus some special strings you might need to know
103 */

105 #define RADIXCHAR  39     /* radix character */
106 #define THOUSEP    40     /* separator for thousand */
107 /* YESSTR and NOSTR marked as legacy in XPG5 and removed in SUSv3 */
108 #if !defined(_XPG6) || defined(__EXTENSIONS__)
109 #define YESSTR      41     /* affirmative response for yes/no queries */
110 #define NOSTR       42     /* negative response for yes/no queries */
111 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */
112 #define CRNCYSTR    43     /* currency symbol */

114 /*
115 * Default string used to format date and time
116 * e.g. Sunday, August 24 21:08:38 MET 1986
117 */

119 #define D_T_FMT     44     /* string for formatting date and time */
120 #define D_FMT       45     /* date format */
121 #define T_FMT       46     /* time format */
122 #define AM_STR      47     /* am string */
123 #define PM_STR      48     /* pm string */

```

```
125 /*
126 * Additions for XPG4 (XSH4) Compliance
127 */

129 #define CODESET      49      /* codeset name */
130 #define T_FMT_AMPM  50      /* am or pm time format string */
131 #define ERA          51      /* era description segments */
132 #define ERA_D_FMT    52      /* era date format string */
133 #define ERA_D_T_FMT  53      /* era date and time format string */
134 #define ERA_T_FMT    54      /* era time format string */
135 #define ALT_DIGITS   55      /* alternative symbols for digits */
136 #define YESEXPR      56      /* affirmative response expression */
137 #define NOEXPR       57      /* negative response expression */
138 #define _DATE_FMT    58      /* strftime format for date(1) */

140 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE)
141 #define MAXSTRMSG     58 /* Maximum number of strings in langinfo */
142 #endif /* defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) */

144 /*
145 * and the definitions of functions langinfo(3C)
146 */
149 #if defined(__STDC__)
147 char *nl_langinfo(nl_item); /* get a string from the database */
151 #else
152 char *nl_langinfo(); /* get a string from the database */
153 #endif

149 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
150 #ifndef _LOCALE_T
151 #define _LOCALE_T
152 typedef struct _locale *locale_t;
153 #endif

161 #if defined(__STDC__)
155 char *nl_langinfo_l(nl_item, locale_t);
163 #else
164 char *nl_langinfo_l();
156 #endif
166 #endif

158 #ifdef __cplusplus
159 }
_____unchanged_portion_omitted_
```

new/usr/src/head/libgen.h

1

```
*****
3576 Sat Aug 2 23:27:08 2014
new/usr/src/head/libgen.h
remove support for non-ANSI compilation
*****
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16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 */
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2003 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved      */

33 /*
34 * declarations of functions found in libgen
35 */

37 #ifndef _LIBGEN_H
38 #define _LIBGEN_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 2.4.2.8 */

40 #include <sys/feature_tests.h>

42 #include <sys/types.h>
43 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
44 #include <time.h>
45 #include <stdio.h>
46 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

48 #ifdef __cplusplus
49 extern "C" {
50 #endif

52 #ifdef __STDC__
52 extern char *basename(char *);
54 #else
55 extern char *basename();
56 #endif

58 #ifdef __STDC__
53 extern char *dirname(char *);
```

new/usr/src/head/libgen.h

2

```
60 #else
61 extern char *dirname();
62 #endif

55 #if !defined(_XPG6) || defined(__EXTENSIONS__)

66 #ifdef __STDC__
56 extern char *regcmp(const char *, ...);
68 #else
69 extern char *regcmp();
70 #endif

72 #ifdef __STDC__
57 extern char *regex(const char *, const char *, ...);
74 #else
75 extern char *regex();
58 #endif

78 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */

60 #ifdef _REENTRANT

82 #ifdef __STDC__
61 extern char **__locl(void);
84 #else
85 extern char **__locl();
86 #endif /* __STDC__ */
62 #define __locl (*(__locl()))
63 #elif !defined(_XPG6) || defined(__EXTENSIONS__)
64 extern char *__locl; /* Marked LEGACY in XPG5 and removed in XPG6 */
65 #endif /* _REENTRANT */

67 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)

94 #ifdef __STDC__
69 extern char *bgets(char *, size_t, FILE *, char *);
96 #else
97 extern char *bgets();
98 #endif

100 #ifdef __STDC__
70 extern size_t bufsplit(char *, size_t, char **);
102 #else
103 extern size_t bufsplit();
104 #endif

72 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
73 #ifdef __PRAGMA_REDEFINE_EXTNAME
74 #pragma redefine_extname      copylist      copylist64
75 #else
76 #define copylist      copylist64
77 #endif
78 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

80 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
81 #ifdef __PRAGMA_REDEFINE_EXTNAME
82 #pragma redefine_extname      copylist64      copylist
83 #else
84 #define copylist64      copylist
85 #endif
86 #endif /* _LP64 && _LARGEFILE64_SOURCE */

122 #ifdef __STDC__
88 extern char *copylist(const char *, off_t *);
89 #if      defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
90          !defined(__PRAGMA_REDEFINE_EXTNAME))
```

```

 91 extern char *copylist64(const char *, off64_t *);
 92 #endif /* _LARGEFILE64_SOURCE... */
128 #else
129 extern char *copylist();
130 #ifdef _LARGEFILE64_SOURCE
131 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
132    !defined(__PRAGMA_REDEFINE_EXTNAME))
133 extern char *copylist64();
134 #endif /* _LARGEFILE64_SOURCE... */
135 #endif
136 #endif

138 #ifdef __STDC__
 94 extern int eaccess(const char *, int);
140 #else
141 extern int eaccess();
142 #endif

144 #ifdef __STDC__
 95 extern int gmatch(const char *, const char *);
146 #else
147 extern int gmatch();
148 #endif

150 #ifdef __STDC__
 96 extern int isencrypt(const char *, size_t);
152 #else
153 extern int isencrypt();
154 #endif

156 #ifdef __STDC__
 97 extern int mkdirp(const char *, mode_t);
158 #else
159 extern int mkdirp();
160 #endif

162 #ifdef __STDC__
 98 extern int p2open(const char *, FILE *[2]);
164 #else
165 extern int p2open();
166 #endif

168 #ifdef __STDC__
 99 extern int p2close(FILE *[2]);
170 #else
171 extern int p2close();
172 #endif

174 #ifdef __STDC__
100 extern char *pathfind(const char *, const char *, const char *);
176 #else
177 extern char *pathfind();
178 #endif

102 #ifdef _REENTRANT
103 #define __i_size (*(__i_size()))
104 #else
105 extern int __i_size;
106 #endif

186 #ifdef __STDC__
108 extern int rmdirp(char *, char *);
188 #else
189 extern int rmdirp();
190 #endif

```

```

192 #ifdef __STDC__
109 extern char *strcadd(char *, const char *);
194 #else
195 extern char *strcadd();
196 #endif

198 #ifdef __STDC__
110 extern char *strccpy(char *, const char *);
200 #else
201 extern char *strccpy();
202 #endif

204 #ifdef __STDC__
111 extern char *streadd(char *, const char *, const char *);
206 #else
207 extern char *streadd();
208 #endif

210 #ifdef __STDC__
112 extern char *strecpy(char *, const char *, const char *);
212 #else
213 extern char *strecpy();
214 #endif

216 #ifdef __STDC__
113 extern int strfind(const char *, const char *);
218 #else
219 extern int strfind();
220 #endif

222 #ifdef __STDC__
114 extern char *strrspn(const char *, const char *);
224 #else
225 extern char *strrspn();
226 #endif

228 #ifdef __STDC__
115 extern char *strtrns(const char *, const char *, const char *, char *);
230 #else
231 extern char *strtrns();
232 #endif

117 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

119 #ifdef __cplusplus
120 }
    unchanged_portion_omitted

```

```

*****
3047 Sat Aug 2 23:27:08 2014
new/usr/src/head/libintl.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
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6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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26 */

29 #ifndef _LIBINTL_H
30 #define _LIBINTL_H

30 #pragma ident      "%Z%%M% %I%      %E% SMI"

32 #include <sys/isa_defs.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 /*
39  * wchar_t is a built-in type in standard C++ and as such is not
40  * defined here when using standard C++. However, the GNU compiler
41  * fixincludes utility nonetheless creates its own version of this
42  * header for use by gcc and g++. In that version it adds a redundant
43  * guard for __cplusplus. To avoid the creation of a gcc/g++ specific
44  * header we need to include the following magic comment:
45  *
46  * we must use the C++ compiler's type
47  *
48  * The above comment should not be removed or changed until GNU
49  * gcc/fixinc/inclhack.def is updated to bypass this header.
50  */
51 #if !defined(__cplusplus) || (__cplusplus < 199711L && !defined(__GNUG__))
52 #ifndef _WCHAR_T
53 #define _WCHAR_T
54 #if defined(_LP64)
55 typedef int      wchar_t;
56 #else
57 typedef long     wchar_t;
58 #endif
59 #endif /* !_WCHAR_T */

```

```

60 #endif /* !defined(__cplusplus) ... */

62 #define TEXTDOMAINMAX 256

64 #define __GNU_GETTEXT_SUPPORTED_REVISION(m) \
65     (((m) == 0) || ((m) == 1)) ? 1 : -1

67 #ifdef __STDC__
67 extern char *dcgettext(const char *, const char *, const int);
68 extern char *dgettext(const char *, const char *);
69 extern char *gettext(const char *);
70 extern char *textdomain(const char *);
71 extern char *bindtextdomain(const char *, const char *);

73 /*
74  * LI18NIX 2000 Globalization Specification Version 1.0
75  * with Amendment 2
76  */
77 extern char *dcngettext(const char *, const char *,
78     const char *, unsigned long int, int);
79 extern char *dnggettext(const char *, const char *,
80     const char *, unsigned long int);
81 extern char *ngettext(const char *, const char *, unsigned long int);
82 extern char *bind_textdomain_codeset(const char *, const char *);

84 /* Word handling functions --- requires dynamic linking */
85 /* Warning: these are experimental and subject to change. */
86 extern int wdinit(void);
87 extern int wchkind(wchar_t);
88 extern int wbindf(wchar_t, wchar_t, int);
89 extern wchar_t *wddelim(wchar_t, wchar_t, int);
90 extern wchar_t mcfiller(void);
91 extern int mcwrap(void);

94 #else
95 extern char *dcgettext();
96 extern char *dgettext();
97 extern char *gettext();
98 extern char *textdomain();
99 extern char *bindtextdomain();

101 /*
102  * LI18NIX 2000 Globalization Specification Version 1.0
103  * with Amendment 2
104  */
105 extern char *dcngettext();
106 extern char *dnggettext();
107 extern char *ngettext();
108 extern char *bind_textdomain_codeset();

110 /* Word handling functions --- requires dynamic linking */
111 /* Warning: these are experimental and subject to change. */
112 extern int wdinit();
113 extern int wchkind();
114 extern int wbindf();
115 extern wchar_t *wddelim();
116 extern wchar_t mcfiller();
117 extern int mcwrap();

119 #endif

93 #ifdef __cplusplus
94 }
95 #endif

97 #endif /* _LIBINTL_H */

```

new/usr/src/head/libw.h

1

\*\*\*\*\*

1439 Sat Aug 2 23:27:08 2014

new/usr/src/head/libw.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
2  * CDDL HEADER START
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5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
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10 * or http://www.opensolaris.org/os/licensing.
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14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */
```

```
28 #ifndef _LIBW_H
29 #define _LIBW_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.1 */
```

```
31 #include <stdlib.h>
```

```
33 #ifdef __cplusplus
34 extern "C" {
35 #endif
```

```
37 #ifndef _EUCWIDTH_T
38 #define _EUCWIDTH_T
39 typedef struct {
40     short int _eucw1, _eucw2, _eucw3;      /*      EUC width      */
41     short int _scrw1, _scrw2, _scrw3;      /*      screen width    */
42     short int _pcw;      /*      WIDE_CHAR width */
43     char _multibyte;      /*      1=multi-byte, 0=single-byte */
44 } eucwidth_t;
45 #endif
```

```
47 #ifdef __STDC__
47 void getwidth(eucwidth_t *);
49 #else
50 void getwidth();
51 #endif /* __STDC__ */
```

```
49 #ifdef __cplusplus
50 }
```

```
_____unchanged_portion_omitted_____
```



new/usr/src/head/link.h

1

```
*****
9339 Sat Aug 2 23:27:08 2014
new/usr/src/head/link.h
remove support for non-ANSI compilation
*****
1 /*
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11 * and limitations under the License.
12 *
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
24 */

26 #ifndef _LINK_H
27 #define _LINK_H

29 #include <sys/link.h>

31 #ifndef _ASM
32 #include <elf.h>
33 #include <sys/types.h>
34 #include <dlfcn.h>
35 #endif

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 #ifndef _ASM
42 /*
43  * ld support library calls.
44  *
45  * These cannot be used in a 32bit large file capable environment because
46  * libelf is not large-file safe. Only define these interfaces if we are not
47  * 32bit, or not in the large file environment.
48  */
49 #if !defined(_ILP32) || _FILE_OFFSET_BITS != 64
50 #ifdef __STDC__
51 #include <libelf.h>
52 extern uint_t ld_version(uint_t);
53 extern void ld_input_done(uint_t *);

54 extern void ld_start(const char *, const Elf32_Half, const char *);
55 extern void ld_atexit(int);
56 extern void ld_open(const char **, const char **, int *, int, Elf **,
57 Elf *, size_t, const Elf_Kind);
58 extern void ld_file(const char *, const Elf_Kind, int, Elf *);
59 extern void ld_input_section(const char *, Elf32_Shdr **, Elf32_Word,
60 Elf_Data *, Elf *, uint_t *);

```

new/usr/src/head/link.h

2

```
61 extern void ld_section(const char *, Elf32_Shdr *, Elf32_Word,
62 Elf_Data *, Elf *);

64 #if defined(_LP64) || defined(_LONGLONG_TYPE)
65 extern void ld_start64(const char *, const Elf64_Half, const char *);
66 extern void ld_atexit64(int);
67 extern void ld_open64(const char **, const char **, int *, int, Elf **,
68 Elf *, size_t, const Elf_Kind);
69 extern void ld_file64(const char *, const Elf_Kind, int, Elf *);
70 extern void ld_input_section64(const char *, Elf64_Shdr **, Elf64_Word,
71 Elf_Data *, Elf *, uint_t *);
72 extern void ld_section64(const char *, Elf64_Shdr *, Elf64_Word,
73 Elf_Data *, Elf *);

75 #endif /* (defined(_LP64) || defined(_LONGLONG_TYPE)) */
76 #else
77 extern void ld_version();
78 extern void ld_input_done();

80 extern void ld_start();
81 extern void ld_atexit();
82 extern void ld_open();
83 extern void ld_file();
84 extern void ld_input_section();
85 extern void ld_section();

87 #if defined(_LP64) || defined(_LONGLONG_TYPE)
88 extern void ld_start64();
89 extern void ld_atexit64();
90 extern void ld_open64();
91 extern void ld_file64();
92 extern void ld_input_section64();
93 extern void ld_section64();

95 #endif /* (defined(_LP64) || defined(_LONGLONG_TYPE)) */
96 #endif /* __STDC__ */
76 #endif /* !defined(_ILP32) || _FILE_OFFSET_BITS != 64 */

78 /*
79  * ld_version() version values.
80  */
81 #define LD_SUP_VNONE 0
82 #define LD_SUP_VERSION1 1
83 #define LD_SUP_VERSION2 2
84 #define LD_SUP_VERSION3 3
85 #define LD_SUP_VCURRENT LD_SUP_VERSION3

87 /*
88  * Flags passed to ld support calls.
89  */
90 #define LD_SUP_DERIVED 0x1 /* derived filename */
91 #define LD_SUP_INHERITED 0x2 /* file inherited from .so DT_NEEDED */
92 #define LD_SUP_EXTRACTED 0x4 /* file extracted from archive */
93 #endif

95 /*
96  * Runtime link-map identifiers.
97  */
98 #define LM_ID_BASE 0x00
99 #define LM_ID_LDSO 0x01
100 #define LM_ID_NUM 2

102 #define LM_ID_BRAND 0xfd /* brand emulation linkmap objs */
103 #define LM_ID_NONE 0xfe /* no link map specified */
104 #define LM_ID_NEWLW 0xff /* create a new link-map */

```

```

106 /*
107  * Runtime Link-Edit Auditing.
108  */
109 #define LAV_NONE                0
110 #define LAV_VERSION1            1
111 #define LAV_VERSION2            2
112 #define LAV_VERSION3            3
113 #define LAV_VERSION4            4
114 #define LAV_VERSION5            5
115 #define LAV_CURRENT             LAV_VERSION5
116 #define LAV_NUM                 6

118 /*
119  * Flags that can be or'd into the la_objopen() return code
120  */
121 #define LA_FLG_BINDTO           0x0001 /* audit symbinds TO this object */
122 #define LA_FLG_BINDFROM       0x0002 /* audit symbinding FROM this object */

124 /*
125  * Flags that can be or'd into the 'flags' argument of la_symbind()
126  */
127 #define LA_SYMB_NOPLTENTER     0x0001 /* disable pltenter for this symbol */
128 #define LA_SYMB_NOPLTEXTIT     0x0002 /* disable pltexit for this symbol */
129 #define LA_SYMB_STRUCTCALL     0x0004 /* this function call passes a */
130                                     /* structure as it's return code */
131 #define LA_SYMB_DLSYM          0x0008 /* this symbol bindings is due to */
132                                     /* a call to dlsym() */
133 #define LA_SYMB_ALTVALUE       0x0010 /* alternate symbol binding returned */
134                                     /* by la_symbind() */

136 /*
137  * Flags that describe the object passed to la_objsearch()
138  */
139 #define LA_SER_ORIG             0x001 /* original (needed) name */
140 #define LA_SER_LIBPATH         0x002 /* LD_LIBRARY_PATH entry prepended */
141 #define LA_SER_RUNPATH         0x004 /* runpath entry prepended */
142 #define LA_SER_CONFIG          0x008 /* configuration entry prepended */
143 #define LA_SER_DEFAULT         0x040 /* default path prepended */
144 #define LA_SER_SECURE          0x080 /* default (secure) path prepended */

146 #define LA_SER_MASK            0xffff /* mask of known flags */

148 /*
149  * Flags that describe the la_activity()
150  */
151 #define LA_ACT_CONSISTENT      0x00 /* add/deletion of objects complete */
152 #define LA_ACT_ADD             0x01 /* objects being added */
153 #define LA_ACT_DELETE          0x02 /* objects being deleted */
154 #define LA_ACT_MAX             3

157 #ifndef _KERNEL
158 #ifndef _ASM

160 #if defined(_LP64)
161 typedef long   lagreg_t;
162 #else
163 typedef int    lagreg_t;
164 #endif

166 struct _la_sparc_regs {
167     lagreg_t    lr_rego0;
168     lagreg_t    lr_rego1;
169     lagreg_t    lr_rego2;
170     lagreg_t    lr_rego3;
171     lagreg_t    lr_rego4;

```

```

172     lagreg_t    lr_rego5;
173     lagreg_t    lr_rego6;
174     lagreg_t    lr_rego7;
175 };
    unchanged portion omitted
195 #endif

197 #if !defined(_SYS_INT_TYPES_H)
198 #if defined(_LP64) || defined(_I32LPx)
199 typedef unsigned long        uintptr_t;
200 #else
201 typedef unsigned int         uintptr_t;
202 #endif
203 #endif

227 #ifdef __STDC__
206 extern uint_t               la_version(uint_t);
207 extern void                 la_activity(uintptr_t *, uint_t);
208 extern void                 la_preinit(uintptr_t *);
209 extern char                 *la_objsearch(const char *, uintptr_t *, uint_t);
210 extern uint_t               la_objopen(Link_map *, Lmid_t, uintptr_t *);
211 extern uint_t               la_objclose(uintptr_t *);
212 extern int                  la_objfilter(uintptr_t *, const char *, uintptr_t *,
213                                         uint_t);
214 #if defined(_LP64)
215 extern uintptr_t            la_amd64_pltenter(Elf64_Sym *, uint_t, uintptr_t *,
216                                             uintptr_t *, uint_t *, const char *);
217
218 extern uintptr_t            la_symbind64(Elf64_Sym *, uint_t, uintptr_t *,
219                                         uintptr_t *, uint_t *, const char *);
220 extern uintptr_t            la_sparcv9_pltenter(Elf64_Sym *, uint_t, uintptr_t *,
221                                                uintptr_t *, La_sparcv9_regs *, uint_t *,
222                                                const char *);
223 extern uintptr_t            la_pltexit64(Elf64_Sym *, uint_t, uintptr_t *,
224                                         uintptr_t *, uint_t, const char *);
225 #else /* !defined(_LP64) */
226 extern uintptr_t            la_symbind32(Elf32_Sym *, uint_t, uintptr_t *,
227                                         uintptr_t *, uint_t *);
228 extern uintptr_t            la_sparcv8_pltenter(Elf32_Sym *, uint_t, uintptr_t *,
229                                                uintptr_t *, La_sparcv8_regs *, uint_t *);
230 extern uintptr_t            la_i86_pltenter(Elf32_Sym *, uint_t, uintptr_t *,
231                                             uintptr_t *, La_i86_regs *, uint_t *);
232 extern uintptr_t            la_pltexit(Elf32_Sym *, uint_t, uintptr_t *,
233                                       uintptr_t *, uint_t);
234 #endif /* _LP64 */
257 #else /* __STDC__ */
258 extern uint_t               la_version();
259 extern void                 la_preinit();
260 extern uint_t               la_objopen();
261 extern uint_t               la_objclose();
262 extern int                  la_objfilter();
263 #if defined(_LP64)
264 extern uintptr_t            la_sparcv9_pltenter();
265 extern uintptr_t            la_pltexit64();
266 extern uintptr_t            la_symbind64();
267 #else /* _ILP32 */
268 extern uintptr_t            la_sparcv8_pltenter();
269 extern uintptr_t            la_i86_pltenter();
270 extern uintptr_t            la_pltexit();
271 extern uintptr_t            la_symbind32();
272 #endif /* _LP64 */
273 #endif /* __STDC__ */

275 #ifdef __STDC__
236 /*

```

```

237 * The ElfW() macro is a GNU/Linux feature, provided as support for
238 * the dl_phdr_info structure used by dl_phdr_iterate(), which also
239 * originated under Linux. Given an ELF data type, without the ElfXX_
240 * prefix, it supplies the appropriate prefix (Elf32_ or Elf64_) for
241 * the ELFCLASS of the code being compiled.
242 *
243 * Note that ElfW() is not suitable in situations in which the ELFCLASS
244 * of the code being compiled does not match that of the objects that
245 * code is intended to operate on (e.g. a 32-bit link-editor building
246 * a 64-bit object). The macros defined in <sys/machelf.h> are
247 * recommended in such cases.
248 */
249 #ifndef _LP64
250 #define ElfW(type)      Elf64_ ## type
251 #else
252 #define ElfW(type)      Elf32_ ## type
253 #endif

255 /*
256 * The callback function to dl_iterate_phdr() receives a pointer
257 * to a structure of this type.
258 *
259 * dlpi_addr is defined such that the address of any segment in
260 * the program header array can be calculated as:
261 *
262 *     addr == info->dlpi_addr + info->dlpi_phdr[x].p_vaddr;
263 *
264 * It is therefore 0 for ET_EXEC objects, and the base address at
265 * which the object is mapped otherwise.
266 */
267 struct dl_phdr_info {
268     ElfW(Addr)          dlpi_addr;      /* Base address of object */
269     const char          *dlpi_name;     /* Null-terminated obj name */
270     const ElfW(Phdr)    *dlpi_phdr;    /* Ptr to ELF program hdr arr */
271     ElfW(Half)          dlpi_phnum;    /* # of items in dlpi_phdr[] */

273     /*
274     * Note: Following members were introduced after the first version
275     * of this structure was available. The dl_iterate_phdr() callback
276     * function is passed a 'size' argument giving the size of the info
277     * structure, and must compare that size to the offset of these fields
278     * before accessing them to ensure that they are present.
279     */

281     /* Incremented when a new object is mapped into the process */
282     u_longlong_t        dlpi_adds;
283     /* Incremented when an object is unmapped from the process */
284     u_longlong_t        dlpi_subs;
285 };

287 extern int dl_iterate_phdr(int (*)(struct dl_phdr_info *, size_t, void *),
288                          void *);
289 #endif /* __STDC__ */

290 #endif /* _ASM */
291 #endif /* _KERNEL */

294 #ifdef __cplusplus
295 }
    unchanged_portion_omitted

```

new/usr/src/head/locale.h

1

```
*****
2869 Sat Aug 2 23:27:08 2014
new/usr/src/head/locale.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
23 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
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25 */
26
27 /*
28  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
29  * Copyright 2013 Garrett D'Amore <garrett@damore.org>
30  *
31  * Portions of this file developed by Garrett D'Amore are licensed
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34  * is specifically prohibited unless those terms are not in conflict with
35  * version 1.0 of the License. You can find this license on-line at
36  * http://www.illumos.org/license/CDDL
37  */
38 #ifndef _LOCALE_H
39 #define _LOCALE_H
40
41 #include <iso/locale_iso.h>
42
43 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
44     defined(__EXTENSIONS__)
45 #include <libintl.h>
46 #endif
47
48 /*
49  * Allow global visibility for symbols defined in
50  * C++ "std" namespace in <iso/locale_iso.h>.
51  */
52 #if __cplusplus >= 199711L
53 using std::lconv;
54 using std::setlocale;
55 using std::localeconv;
56 #endif
57
58 #ifdef __cplusplus
59 extern "C" {
60 #endif
```

new/usr/src/head/locale.h

2

```
62 #define _LastCategory    LC_MESSAGES    /* This must be last category */
63
64 #define _ValidCategory(c) \
65     (((int)(c) >= LC_CTYPE) && ((int)(c) <= _LastCategory) || \
66     ((int)c == LC_ALL))
67
68 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
69
70 /*
71  * These were added in POSIX 2008 as part of the newlocale() specification.
72  */
73 #define LC_CTYPE_MASK        (1 << LC_CTYPE)
74 #define LC_NUMERIC_MASK     (1 << LC_NUMERIC)
75 #define LC_TIME_MASK        (1 << LC_TIME)
76 #define LC_COLLATE_MASK     (1 << LC_COLLATE)
77 #define LC_MONETARY_MASK    (1 << LC_MONETARY)
78 #define LC_MESSAGES_MASK    (1 << LC_MESSAGES)
79 #define LC_ALL_MASK         (0x3f)
80
81 #ifndef _LOCALE_T
82 #define _LOCALE_T
83 typedef struct _locale *locale_t;
84 #endif
85
86 #if defined(__STDC__)
87 extern locale_t duplocale(locale_t);
88 extern void freelocale(locale_t);
89 extern locale_t newlocale(int, const char *, locale_t);
90 extern locale_t uselocale(locale_t);
91 #else /* __STDC__ */
92 extern locale_t duplocale();
93 extern void freelocale();
94 extern locale_t newlocale();
95 extern locale_t uselocale();
96 #endif /* __STDC__ */
97
98 #define LC_GLOBAL_LOCALE    (__global_locale())
99 extern locale_t __global_locale(void);
100
101 #endif /* defined(_XPG7) || !defined(_STRICT_SYMBOLS) */
102
103 #ifdef __cplusplus
104 }
105 #endif
106
107 _____
108 unchanged portion omitted
109 _____
```

new/usr/src/head/macros.h

1

```
*****
2786 Sat Aug 2 23:27:08 2014
new/usr/src/head/macros.h
remove support for non-ANSI compilation
*****
1 /*
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6  * (the "License"). You may not use this file except in compliance
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20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _MACROS_H
30 #define _MACROS_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3.1.7 */

32 #include <sys/types.h>
33 #include <sys/stat.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 /*
40  * numeric() is useful in while's, if's, etc., but don't use *p++
41  * max() and min() depend on the types of the operands
42  * abs() is absolute value
43  */
44 #define numeric(c)      ((c) >= '0' && (c) <= '9')
45 #define max(a, b)      ((a) < (b) ? (b) : (a))
46 #define min(a, b)      ((a) > (b) ? (b) : (a))
47 #define abs(x)         ((x) >= 0 ? (x) : -(x))

49 #define compare(str1, str2)      strcmp((str1), (str2))
50 #define equal(str1, str2)      (strcmp((str1), (str2)) == 0)
51 #define length(str)      strlen(str)
52 #define size(str)      (strlen(str) + 1)

54 /*
55  * The global variable Statbuf is available for use as a stat(II)
56  * structure. Note that "stat.h" is included here and should
57  * not be included elsewhere.
58  * Exists(file) returns 0 if the file does not exist;
59  * the flags word if it does (the flags word is always non-zero).
```

new/usr/src/head/macros.h

2

```
60 */

62 extern struct stat Statbuf;
63 #define exists(file)      (stat(file, &Statbuf) < 0 ? 0 : Statbuf.st_mode)

65 /*
66  *      SAVE() and RSTR() use local data in nested blocks.
67  *      Make sure that they nest cleanly.
68  */
69 #define SAVE(name, place)      { int place = name;
70 #define RSTR(name, place)      name = place; }

72 /*
73  *      Use: DEBUG(sum,d) which becomes fprintf(stderr,"sum = %d\n",sum)
74  *
75  *      Note:  Sccsid[] strings are still supported but not the preferred
76  *      method of labeling files. Use #ident.
77  */
77 #ifdef __STDC__
75 #define DEBUG(var, type)      fprintf(stderr, #var "= %" #type "\n", var)
79 #define SCCSID(arg)      static char Sccsid[] = #arg
80 #else
81 #define DEBUG(var, type)      fprintf(stderr, "var = %type\n", var)
82 #define SCCSID(arg)      static char Sccsid[] = "arg"
83 #endif

77 /*
78  *      Use of ERRABORT() will cause libS.a internal
79  *      errors to cause aborts
80  */
81 #define ERRABORT()      _error() { abort(); }

83 /*
84  *      Use of USXALLOCC() is required to force all calls to alloc()
85  *      (e.g., from libS.a) to call xalloc().
86  */
87 #define NONBLANK(p)      while (*(p) == ' ' || *(p) == '\t') (p)++

89 /*
90  *      A global null string.
91  */
92 extern char      Null[1];

94 /*
95  *      A global error message string.
96  */
97 extern char      Error[128];

99 #ifdef __cplusplus
100 }
_____unchanged_portion_omitted_____
```

```

*****
2626 Sat Aug 2 23:27:08 2014
new/usr/src/head/malloc.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
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20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

28 #ifndef _MALLOC_H
29 #define _MALLOC_H

31 #include <sys/types.h>

33 #ifdef __cplusplus
34 extern "C" {
35 #endif

37 /*
38  *      Constants defining malloc operations
39  */
40 #define M_MXFAST      1      /* set size of blocks to be fast */
41 #define M_NLBLKS      2      /* set number of block in a holding block */
42 #define M_GRAIN       3      /* set number of sizes mapped to one, for */
43                          /* small blocks */
44 #define M_KEEP        4      /* retain contents of block after a free */
45                          /* until another allocation */
46 /*
47  *      structure filled by
48  */
49 struct mallinfo {
50     unsigned long arena; /* total space in arena */
51     unsigned long ordblks; /* number of ordinary blocks */
52     unsigned long smlblks; /* number of small blocks */
53     unsigned long hblks; /* number of holding blocks */
54     unsigned long hblkhd; /* space in holding block headers */
55     unsigned long usmblks; /* space in small blocks in use */
56     unsigned long fsmblks; /* space in free small blocks */
57     unsigned long uordblks; /* space in ordinary blocks in use */
58     unsigned long fordblks; /* space in free ordinary blocks */
59     unsigned long keepcost; /* cost of enabling keep option */
60 };

```

```

60 #if defined(__STDC__)

62 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
63     defined(_XPG3)
64 #if __cplusplus >= 199711L
65 namespace std {
66 #endif

68 void *malloc(size_t);
69 void free(void *);
70 void *realloc(void *, size_t);
71 void *calloc(size_t, size_t);

73 #if __cplusplus >= 199711L
74 } /* end of namespace std */

76 using std::malloc;
77 using std::free;
78 using std::realloc;
79 using std::calloc;
80 #endif /* __cplusplus >= 199711L */
81 #endif /* (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || ... */

83 int mallopt(int, int);
84 struct mallinfo mallinfo(void);

86 #else

88 void *malloc();
89 void free();
90 void *realloc();
91 void *calloc();
92 int mallopt();
93 struct mallinfo mallinfo();

95 #endif /* __STDC__ */

86 #ifdef __cplusplus
87 }

unchanged_portion_omitted

```

new/usr/src/head/memory.h

1

```
*****
1734 Sat Aug 2 23:27:08 2014
new/usr/src/head/memory.h
remove support for non-ANSI compilation
*****
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25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

28 #ifndef _MEMORY_H
29 #define _MEMORY_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.4.1.2 */

31 #include <sys/types.h>

33 #ifdef __cplusplus
34 extern "C" {
35 #endif

37 #if defined(__STDC__)
37 extern void *memcpy(void *, const void *, int, size_t);
38 #if __cplusplus >= 199711L
39 namespace std {
40 extern const void *memchr(const void *, int, size_t);
41 #ifndef _MEMCHR_INLINE
42 #define _MEMCHR_INLINE
43 extern "C++" {
44     inline void *memchr(void * __s, int __c, size_t __n) {
45         return (void*)memchr((const void *) __s, __c, __n);
46     }
47 }
48 #endif
49 }
50 using std::memchr;
51 #else
52 extern void *memchr(const void *, int, size_t);
53 #endif
54 extern void *memcpy(void *, const void *, size_t);
55 extern void *memset(void *, int, size_t);
56 extern int memcmp(const void *, const void *, size_t);
58 #else
59 extern void *memcpy();
```

new/usr/src/head/memory.h

2

```
60 extern void *memchr();
61 extern void *memcpy();
62 extern void *memset();
63 extern int memcmp();
64 #endif

58 #ifdef __cplusplus
59 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/mon.h

1

```
*****
1980 Sat Aug 2 23:27:09 2014
new/usr/src/head/mon.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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6  * (the "License"). You may not use this file except in compliance
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved      */
```

```
25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 1997-2003 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */
```

```
32 #ifndef _MON_H
33 #define _MON_H
```

```
34 #pragma ident      "%Z%M% %I%      %E% SMI"
```

```
35 #ifdef __cplusplus
36 extern "C" {
37 #endif
```

```
39 /*
40 * Inclusion of <sys/types.h> will break SVID namespace, hence only
41 * the size_t type is defined in this header.
42 */
43 #if !defined(_SIZE_T) || __cplusplus >= 199711L
44 #define _SIZE_T
45 #if defined(_LP64) || defined(_I32LPx)
46 typedef unsigned long size_t; /* size of something in bytes */
47 #else
48 typedef unsigned int size_t; /* (historical version) */
49 #endif
50 #endif /* _SIZE_T */
```

```
52 struct hdr {
53     char    *lpc;
54     char    *hpc;
55     size_t  nfns;
56 };
```

unchanged\_portion\_omitted

new/usr/src/head/mon.h

2

```
63 typedef unsigned short WORD;

65 #define MON_OUT "mon.out"
66 #define MPROGS0 (150 * sizeof (WORD)) /* 300 for pdp11, 600 for 32-bits */
67 #define MSCALE0 4
```

```
69 #ifndef NULL
70 #if defined(_LP64)
71 #define NULL    0L
72 #else
73 #define NULL    0
74 #endif
75 #endif
```

```
78 #if defined(__STDC__)
79 extern void monitor(int (*)(void), int (*)(void), WORD *, size_t, size_t);
80 #else
81 extern void monitor();
82 #endif
```

```
79 #ifdef __cplusplus
80 }
```

unchanged\_portion\_omitted



new/usr/src/head/monetary.h

1

```
*****
1533 Sat Aug  2 23:27:09 2014
new/usr/src/head/monetary.h
remove support for non-ANSI compilation
*****
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3  *
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27 */
28 /*
29 * Copyright 2013 Garrett D'Amore <garrett@damore.org>
30 */

29 #ifndef _MONETARY_H
30 #define _MONETARY_H

32 #include <sys/feature_tests.h>
33 #include <sys/types.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

40 #if defined(__STDC__)
39 extern ssize_t strfmon(char *_RESTRICT_KYWD, size_t,
40                       const char *_RESTRICT_KYWD, ...);

42 #if defined(_XPG7) || (!defined(_STRICT_STRICT_SYMBOLS))

44 #ifndef _LOCALE_T
45 #define _LOCALE_T
46 typedef struct _locale *locale_t;
47 #endif

49 extern ssize_t strfmon_l(char *_RESTRICT_KYWD, size_t, locale_t,
50                          const char *_RESTRICT_KYWD, ...);
51 #endif

55 #else
56 extern ssize_t strfmon();
57 extern ssize_t strfmon_l();
58 #endif
```

new/usr/src/head/monetary.h

2

```
53 #ifdef __cplusplus
54 }
_____unchanged_portion_omitted_
```

```

*****
2123 Sat Aug 2 23:27:09 2014
new/usr/src/head/mp.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
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32 /*
33  * Portions of this source code were derived from Berkeley 4.3 BSD
34  * under license from the Regents of the University of California.
35  */

37 #ifndef _MP_H
38 #define _MP_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"

40 #ifdef __cplusplus
41 extern "C" {
42 #endif

44 struct mint {
45     int len;
46     short *val;
47 };
48 typedef struct mint MINT;

51 #ifdef __STDC__
51 extern void mp_gcd(MINT *, MINT *, MINT *);
52 extern void mp_madd(MINT *, MINT *, MINT *);
53 extern void mp_msub(MINT *, MINT *, MINT *);
54 extern void mp_mdiv(MINT *, MINT *, MINT *, MINT *);
55 extern void mp_sdiv(MINT *, short, MINT *, short *);
56 extern int mp_min(MINT *);
57 extern void mp_mout(MINT *);
58 extern int mp_msqrt(MINT *, MINT *, MINT *);

```

```

59 extern void mp_mult(MINT *, MINT *, MINT *);
60 extern void mp_pow(MINT *, MINT *, MINT *, MINT *);
61 extern void mp_rpow(MINT *, short, MINT *);
62 extern MINT *mp_itom(short);
63 extern int mp_mcmp(MINT *, MINT *);
64 extern MINT *mp_xtom(char *);
65 extern char *mp_mtox(MINT *);
66 extern void mp_mfree(MINT *);
68 #else
69 extern void mp_gcd();
70 extern void mp_madd();
71 extern void mp_msub();
72 extern void mp_mdiv();
73 extern void mp_sdiv();
74 extern int mp_min();
75 extern void mp_mout();
76 extern int mp_msqrt();
77 extern void mp_mult();
78 extern void mp_pow();
79 extern void mp_rpow();
80 extern MINT *mp_itom();
81 extern int mp_mcmp();
82 extern MINT *mp_xtom();
83 extern char *mp_mtox();
84 extern void mp_mfree();
85 #endif

68 #define FREE(x) _mp_xfree(&(x))      /* Compatibility */

70 #ifdef __cplusplus
71 }
_____unchanged_portion_omitted_____

```

```

*****
2609 Sat Aug 2 23:27:09 2014
new/usr/src/head/mqueue.h
remove support for non-ANSI compilation
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22 /*
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27 */

29 #ifndef _MQUEUE_H
30 #define _MQUEUE_H

32 #pragma ident      "%Z%M% %I%      %E% SMI"

33 #include <sys/feature_tests.h>
34 #include <sys/types.h>
35 #include <sys/fcntl.h>
36 #include <sys/signal.h>
37 #include <sys/signinfo.h>
38 #include <time.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 typedef void      *mqd_t;          /* opaque message queue descriptor */

45 struct mq_attr {
46     long          mq_flags;        /* message queue flags */
47     long          mq_maxmsg;      /* maximum number of messages */
48     long          mq_msgsize;     /* maximum message size */
49     long          mq_curmsgs;     /* number of messages currently queued */
50     int           mq_pad[12];
51 };

53 /*
54 * function prototypes
55 */
56 #if defined(__STDC__)
57 #if (_POSIX_C_SOURCE - 0 > 0) && (_POSIX_C_SOURCE - 0 <= 2)
58 #error "POSIX Message Passing is not supported in POSIX.1-1990"
59 #endif

```

```

59 #include <sys/signinfo.h>
60 mqd_t  mq_open(const char *, int, ...);
61 int    mq_close(mqd_t);
62 int    mq_unlink(const char *);
63 int    mq_send(mqd_t, const char *, size_t, unsigned int);
64 int    mq_timedsend(mqd_t, const char *, size_t, unsigned int,
65                    const struct timespec *);
66 int    mq_reltimedsend_np(mqd_t, const char *, size_t, unsigned int,
67                           const struct timespec *);
68 ssize_t mq_receive(mqd_t, char *, size_t, unsigned int *);
69 ssize_t mq_timedreceive(mqd_t, char * _RESTRICT_KYWD, size_t,
70                        unsigned int * _RESTRICT_KYWD,
71                        const struct timespec * _RESTRICT_KYWD);
72 ssize_t mq_reltimedreceive_np(mqd_t, char * _RESTRICT_KYWD, size_t,
73                               unsigned int * _RESTRICT_KYWD,
74                               const struct timespec * _RESTRICT_KYWD);
75 int    mq_notify(mqd_t, const struct sigevent *);
76 int    mq_getattr(mqd_t, struct mq_attr *);
77 int    mq_setattr(mqd_t, const struct mq_attr * _RESTRICT_KYWD,
78                  struct mq_attr * _RESTRICT_KYWD);
80 #else
81 mqd_t  mq_open();
82 int    mq_close();
83 int    mq_unlink();
84 int    mq_send();
85 int    mq_timedsend();
86 int    mq_reltimedsend_np();
87 ssize_t mq_receive();
88 ssize_t mq_timedreceive();
89 ssize_t mq_reltimedreceive_np();
90 int    mq_notify();
91 int    mq_getattr();
92 int    mq_setattr();
93 #endif /* __STDC__ */

80 #ifdef __cplusplus
81 }

```

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_

new/usr/src/head/nan.h

1

```
*****
3202 Sat Aug 2 23:27:09 2014
new/usr/src/head/nan.h
remove support for non-ANSI compilation
*****
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26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright (c) 1996, by Sun Microsystems, Inc.
30 * All Rights Reserved
31 */

33 #ifndef _NAN_H
34 #define _NAN_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"

36 /*
37 * Handling of Not_a_Number's (only in IEEE floating-point standard)
38 */

40 #include <sys/isa_defs.h>
41 #include <values.h>

43 #ifdef __cplusplus
44 extern "C" {
45 #endif

47 #if defined(_IEEE_754)
48 /*
49  * Structure order is endian dependent.  Only the common variants of
50  * big and little endian are supported.
51  */

53 #if defined(_BIG_ENDIAN)

55 typedef union
56 {
57     struct
58     {
59         unsigned sign          : 1;
```

new/usr/src/head/nan.h

2

```
60         unsigned exponent      :11;
61         unsigned bits          :20;
62         unsigned fraction_low   :32;
63     } inf_parts;
64     struct
65     {
66         unsigned sign          : 1;
67         unsigned exponent      :11;
68         unsigned qnan_bit      : 1;
69         unsigned bits          :19;
70         unsigned fraction_low   :32;
71     } nan_parts;
72     double d;

74 } dnan;
_____ unchanged_portion_omitted

96 #endif /* Endian based selection */

98 /*
99  * IsNaNorINF checks that exponent of double == 2047
100 * i.e. that number is a NaN or an infinity
101 */
102 #define IsNaNorINF(X)  (((dnan *)&(X))->nan_parts.exponent == 0x7ff)

104 /*
105  * IsINF must be used after IsNaNorINF has checked the exponent
106 */
107 #define IsINF(X)      (((dnan *)&(X))->inf_parts.bits == 0 && \
108                      ((dnan *)&(X))->inf_parts.fraction_low == 0)

110 /*
111  * IsPosNaN and IsNegNaN can be used to check the sign of infinities too
112 */
113 #define IsPosNaN(X)   (((dnan *)&(X))->nan_parts.sign == 0)

115 #define IsNegNaN(X)   (((dnan *)&(X))->nan_parts.sign == 1)

117 /*
118  * GETNaNPC gets the leftmost 32 bits of the fraction part
119 */
120 #define GETNaNPC(dval)  (((dnan *)&(dval))->inf_parts.bits << 12 | \
121                       ((dnan *)&(dval))->nan_parts.fraction_low >> 20)

123 #if defined(__STDC__)
123 #define KILLFPE()      (void) _kill(_getpid(), 8)
125 #else
126 #define KILLFPE()      (void) kill(_getpid(), 8)
127 #endif
124 #define NaN(X)         (((dnan *)&(X))->nan_parts.exponent == 0x7ff)
125 #define KILLNaN(X)     if (NaN(X)) KILLFPE()

127 #else /* defined(_IEEE_754) */
128 /* #error is strictly ansi-C, but works as well as anything for K&R systems. */
129 #error ISA not supported
130 #endif /* defined(_IEEE_754) */

132 #ifdef __cplusplus
133 }
_____ unchanged_portion_omitted
```

new/usr/src/head/ndbm.h

1

```
*****
3226 Sat Aug 2 23:27:09 2014
new/usr/src/head/ndbm.h
remove support for non-ANSI compilation
*****
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20 * CDDL HEADER END
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30 /*      All Rights Reserved      */

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34 * under license from the Regents of the University of California.
35 */

37 /*
38 * Hashed key data base library.
39 */

41 #ifndef _NDBM_H
42 #define _NDBM_H

43 #pragma ident      "%Z%M% %I%      %E% SMI"

44 #include <sys/feature_tests.h>
45 #include <sys/types.h>

47 #ifdef __cplusplus
48 extern "C" {
49 #endif

51 /*
52 * flags to dbm_store()
53 */
54 #define DBM_INSERT      0
55 #define DBM_REPLACE      1

57 #define _PBLKSIZ 1024
58 #define _DBLKSIZ 4096
```

new/usr/src/head/ndbm.h

2

```
60 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
61 #define PBLKSIZ _PBLKSIZ
62 #define DBLKSIZ _DBLKSIZ
63 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

65 typedef struct {
66     int      dbm_dirf;          /* open directory file */
67     int      dbm_pagf;          /* open page file */
68     int      dbm_flags;          /* flags, see below */
69     long     dbm_maxbno;          /* last 'bit' in dir file */
70     long     dbm_bitno;          /* current bit number */
71     long     dbm_hmask;          /* hash mask */
72     long     dbm_blkptr;          /* current block for dbm_nextkey */
73     int      dbm_keyptr;          /* current key for dbm_nextkey */
74     long     dbm_blkno;          /* current page to read/write */
75     long     dbm_pagbno;          /* current page in pagbuf */
76     char     dbm_pagbuf[_PBLKSIZ]; /* page file block buffer */
77     long     dbm_dirbno;          /* current block in dirbuf */
78     char     dbm_dirbuf[_DBLKSIZ]; /* directory file block buffer */
79 } DBM;
_____ unchanged_portion_omitted _____
91 #endif

93 #ifdef __STDC__
93 DBM      *dbm_open(const char *, int, mode_t);
94 void      dbm_close(DBM *);
95 datum     dbm_fetch(DBM *, datum);
96 datum     dbm_firstkey(DBM *);
97 datum     dbm_nextkey(DBM *);
98 int      dbm_delete(DBM *, datum);
99 int      dbm_store(DBM *, datum, datum, int);
100 int      dbm_clearerr(DBM *);
101 int      dbm_error(DBM *);
103 #else
104 DBM      *dbm_open();
105 void      dbm_close();
106 datum     dbm_fetch();
107 datum     dbm_firstkey();
108 datum     dbm_nextkey();
109 int      dbm_delete();
110 int      dbm_store();
111 int      dbm_clearerr();
112 int      dbm_error();
113 #endif

103 #define _DBM_RDONLY      0x1      /* data base open read-only */
104 #define _DBM_IOERR      0x2      /* data base I/O error */

106 #define dbm_ronly(__db)      ((__db)->dbm_flags & _DBM_RDONLY)
107 #define dbm_error(__db)      ((__db)->dbm_flags & _DBM_IOERR)
108 /* use this one at your own risk! */
109 #define dbm_clearerr(__db)      ((__db)->dbm_flags &= ~_DBM_IOERR)
110 /* for fstat(2) */
111 #define dbm_dirfno(__db)      ((__db)->dbm_dirf)
112 #define dbm_pagfno(__db)      ((__db)->dbm_pagf)

114 #ifdef __cplusplus
115 }
_____ unchanged_portion_omitted _____
```

```

*****
14291 Sat Aug  2 23:27:09 2014
new/usr/src/head/netdb.h
remove support for non-ANSI compilation
*****
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52  * specific, written prior permission.
53  *
54  * THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
55  * WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
56  * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
57  * CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
58  * DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
59  * PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
60  * ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
61  * SOFTWARE.

```

```

62  * --Copyright--
63  *
64  * End BIND 4.9.3
65  */

67 /*
68  * Structures returned by network data base library.
69  * All addresses are supplied in host order, and
70  * returned in network order (suitable for use in system calls).
71  */

73 #ifndef _NETDB_H
74 #define _NETDB_H

76 #include <sys/types.h>
77 #include <netinet/in.h>
78 #if !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__)
79 #include <sys/socket.h>
80 #endif /* !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__) */
81 #include <sys/feature_tests.h>

83 #ifdef __cplusplus
84 extern "C" {
85 #endif

87 #define _PATH_HEQUIV    "/etc/hosts.equiv"
88 #define _PATH_HOSTS    "/etc/hosts"
89 #define _PATH_IPNODES  "/etc/inet/ipnodes"
90 #define _PATH_IPSECALGS "/etc/inet/ipsecalgs"
91 #define _PATH_NETMASKS "/etc/netmasks"
92 #define _PATH_NETWORKS "/etc/networks"
93 #define _PATH_PROTOCOLS "/etc/protocols"
94 #define _PATH_SERVICES  "/etc/services"

96 struct hostent {
97     char    *h_name;        /* official name of host */
98     char    **h_aliases;   /* alias list */
99     int     h_addrtype;    /* host address type */
100    int     h_length;       /* length of address */
101    char    **h_addr_list;  /* list of addresses from name server */
102 #define h_addr  h_addr_list[0] /* address, for backward compatibility */
103 };

    unchanged_portion_omitted

232 #ifdef __STDC__
233 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
234 struct hostent *gethostbyname_r
235     (const char *, struct hostent *, char *, int, int *h_errnop);
236 struct hostent *gethostbyaddr_r
237     (const char *, int, int, struct hostent *, char *, int, int *h_errnop);
238 struct hostent *getipnodebyname(const char *, int, int, int *);
239 struct hostent *getipnodebyaddr(const void *, size_t, int, int *);
240 void freehostent(struct hostent *);
241 struct hostent *gethostent_r(struct hostent *, char *, int, int *h_errnop);

242 struct servent *getservbyname_r
243     (const char *name, const char *, struct servent *, char *, int);
244 struct servent *getservbyport_r
245     (int port, const char *, struct servent *, char *, int);
246 struct servent *getservent_r(struct servent *, char *, int);

250 struct netent *getnetbyname_r
251     (const char *, struct netent *, char *, int);
252 struct netent *getnetbyaddr_r(long, int, struct netent *, char *, int);
253 struct netent *getnetent_r(struct netent *, char *, int);

```

```

255 struct protoent *getprotobyname_r
256     (const char *, struct protoent *, char *, int);
257 struct protoent *getprotobyname_r
258     (int, struct protoent *, char *, int);
259 struct protoent *getprotoent_r(struct protoent *, char *, int);

261 int getnetgrent_r(char **, char **, char **, char *, int);
262 int innnetgr(const char *, const char *, const char *, const char *);
263 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

265 /* Old interfaces that return a pointer to a static area; MT-unsafe */
266 struct hostent *gethostbyname(const char *);
267 struct hostent *gethostent(void);
268 struct netent *getnetbyaddr(in_addr_t, int);
269 struct netent *getnetbyname(const char *);
270 struct netent *getnetent(void);
271 struct protoent *getprotobyname(const char *);
272 struct protoent *getprotobyname_r(int);
273 struct protoent *getprotoent(void);
274 struct servent *getservbyname(const char *, const char *);
275 struct servent *getservbyport(int, const char *);
276 struct servent *getservent(void);

278 /* gethostbyaddr() second argument is a size_t only in unix95/unix98 */
279 #if !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__)
280 struct hostent *gethostbyaddr(const void *, socklen_t, int);
281 #else
282 struct hostent *gethostbyaddr(const void *, size_t, int);
283 #endif /* !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__) */

285 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
286 int endhostent(void);
287 int endnetent(void);
288 int endprotoent(void);
289 int endservent(void);
290 int sethostent(int);
291 int setnetent(int);
292 int setprotoent(int);
293 int setservent(int);
294 #else
295 void endhostent(void);
296 void endnetent(void);
297 void endprotoent(void);
298 void endservent(void);
299 void sethostent(int);
300 void setnetent(int);
301 void setprotoent(int);
302 void setservent(int);
303 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

305 #if !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__)

307 #ifdef _XPG6
308 #ifdef __PRAGMA_REDEFINE_EXTNAME
309 #pragma redefine_extname getaddrinfo __xnet_getaddrinfo
310 #else /* __PRAGMA_REDEFINE_EXTNAME */
311 #define getaddrinfo __xnet_getaddrinfo
312 #endif /* __PRAGMA_REDEFINE_EXTNAME */
313 #endif /* _XPG6 */

315 int
316     getaddrinfo(const char *_RESTRICT_KYWD,
317                const char *_RESTRICT_KYWD,
318                const struct addrinfo *_RESTRICT_KYWD,
319                struct addrinfo **_RESTRICT_KYWD);
320 void
321     freeaddrinfo(struct addrinfo *);
322 const char
323     *gai_strerror(int);

```

```

321 int
322     getnameinfo(const struct sockaddr *_RESTRICT_KYWD,
323                socklen_t, char *_RESTRICT_KYWD, socklen_t,
324                char *_RESTRICT_KYWD, socklen_t, int);
325 #endif /* !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__) */

326 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
327 int getnetgrent(char **, char **, char **);
328 int setnetgrent(const char *);
329 int endnetgrent(void);
330 int rcmd(char **, unsigned short,
331          const char *, const char *, const char *, int *);
332 int rcmd_af(char **, unsigned short,
333            const char *, const char *, const char *, int *, int);
334 int rresvport_af(int *, int);
335 int rresvport_addr(int *, struct sockaddr_storage *);
336 int rexec(char **, unsigned short,
337           const char *, const char *, const char *, int *);
338 int rexec_af(char **, unsigned short,
339             const char *, const char *, const char *, int *, int);
340 int rresvport(int *);
341 int ruserok(const char *, int, const char *, const char *);
342 /* BIND */
343 struct hostent *gethostbyname2(const char *, int);
344 void
345     perror(const char *);
346 /* End BIND */

348 /* IPsec algorithm prototype definitions */
349 struct ipsecalgent *getipsecalgbyname(const char *, int, int *);
350 struct ipsecalgent *getipsecalgbynum(int, int, int *);
351 int getipsecprotobyname(const char *doi_name);
352 char *getipsecprotobynum(int doi_domain);
353 void freeipsecalgent(struct ipsecalgent *ptr);
354 /* END IPsec algorithm prototype definitions */

356 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */
357 #else /* __STDC__ */
358 struct hostent *gethostbyname_r();
359 struct hostent *gethostbyaddr_r();
360 struct hostent *getipnodebyname();
361 struct hostent *getipnodebyaddr();
362 void
363     freehostent();
364 struct hostent *gethostent_r();
365 struct servent *getservbyname_r();
366 struct servent *getservbyport_r();
367 struct servent *getservent_r();
368 struct netent *getnetbyname_r();
369 struct netent *getnetbyaddr_r();
370 struct netent *getnetent_r();
371 struct protoent *getprotobyname_r();
372 struct protoent *getprotobyname_r(int);
373 struct protoent *getprotoent_r();
374 int
375     getnetgrent_r();
376 int
377     innnetgr_r();

378 /* Old interfaces that return a pointer to a static area; MT-unsafe */
379 struct hostent *gethostbyname();
380 struct hostent *gethostbyaddr();
381 struct hostent *gethostent();
382 struct netent *getnetbyname();
383 struct netent *getnetbyaddr();
384 struct netent *getnetent();
385 struct servent *getservbyname();
386 struct servent *getservbyport();
387 struct servent *getservent();
388 struct protoent *getprotobyname();

```

```

386 struct protoent *getprotobynumber();
387 struct protoent *getprotoent();
388 int      getnetgrent();

390 int sethostent();
391 int endhostent();
392 int setnetent();
393 int endnetent();
394 int setservent();
395 int endservent();
396 int setprotoent();
397 int endprotoent();
398 int setnetgrent();
399 int endnetgrent();
400 int rcmd();
401 int rcmd_af();
402 int rexec();
403 int rexec_af();
404 int rresvport();
405 int rresvport_af();
406 int rresvport_addr();
407 int ruserok();
408 /* BIND */
409 struct hostent *gethostbyname2();
410 void      herror();
411 char      *hstrerror();
412 /* IPv6 prototype definitions */
413 int      getaddrinfo();
414 void      freeaddrinfo();
415 const char *gai_strerror();
416 int      getnameinfo();
417 /* END IPv6 prototype definitions */
418 /* End BIND */

420 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
421 /* IPsec algorithm prototype definitions */
422 struct ipsecalgent *getalgbyname();
423 struct ipsecalgent *getalgbydoi();
424 int getdoidomainbyname();
425 const char *getdoidomainbynum();
426 void freealgent();
427 /* END IPsec algorithm prototype definitions */
428 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

430 #endif /* __STDC__ */

358 /*
359 * Error return codes from gethostbyname() and gethostbyaddr()
360 * (when using the resolver)
361 */

363 extern int h_errno;

365 #ifdef _REENTRANT
440 #ifdef __STDC__
366 extern int      *__h_errno(void);
442 #else
443 extern int      *__h_errno();
444 #endif /* __STDC__ */

368 /* Only #define h_errno if there is no conflict with other use */
369 #ifdef H_ERRNO_IS_FUNCTION
370 #define h_errno (*__h_errno())
371 #endif /* NO_H_ERRNO_DEFINE */
372 #endif /* _REENTRANT */

```

```

374 /*
375 * Error return codes from gethostbyname() and gethostbyaddr()
376 * (left in extern int h_errno).
377 */
378 #define HOST_NOT_FOUND 1 /* Authoritative Answer Host not found */
379 #define TRY_AGAIN      2 /* Non-Authoritative Host not found, or SERVERFAIL */
380 #define NO_RECOVERY    3 /* Non recoverable errors, FORMERR, REFUSED, NOTIMP */
381 #define NO_DATA        4 /* Valid name, no data record of requested type */

383 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
384 #define NO_ADDRESS     NO_DATA /* no address, look for MX record */

386 /* BIND */
387 #define NETDB_INTERNAL -1 /* see errno */
388 #define NETDB_SUCCESS  0 /* no problem */
389 /* End BIND */

391 #define MAXHOSTNAMELEN 256

393 #define MAXALIASES     35
394 #define MAXADDRES     35
395 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

397 #ifdef __cplusplus
398 }
_____unchanged_portion_omitted_____

```



new/usr/src/head/netdir.h

1

```
*****
5495 Sat Aug 2 23:27:09 2014
new/usr/src/head/netdir.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1992 Sun Microsystems, Inc.      */
26 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
27 /*      All Rights Reserved      */

29 /*
30  * netdir.h
31  *
32  * This is the include file that defines various structures and
33  * constants used by the netdir routines.
34  */

36 #ifndef _NETDIR_H
37 #define _NETDIR_H

37 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.5 */

39 /*
40  * This files uses struct netconfig, and netconfig.h must be included
41  * before this to avoid warnings.
42  */

44 #include <netconfig.h>

46 #ifdef __cplusplus
47 extern "C" {
48 #endif

50 struct nd_addrlist {
51     int      n_cnt;      /* number of netbufs */
52     struct netbuf *n_addrs; /* the netbufs */
53 };
unchanged_portion_omitted

71 /*
72  * _nderror is a private variable to the netdir system.
73  */
```

new/usr/src/head/netdir.h

2

```
74 #ifdef _REENTRANT
75 extern int      *_nderror();
76 #define _nderror      (*_nderror())
77 #else
78 extern int _nderror;
79 #endif /* _REENTRANT */

82 #ifdef __STDC__

82 int netdir_options(struct netconfig *, int option, int fd, char *par);
83 int netdir_getbyname(struct netconfig *, struct nd_hostserv *,
84     struct nd_addrlist **);
85 int netdir_getbyaddr(struct netconfig *, struct nd_hostservlist **,
86     struct netbuf *);
87 int __netdir_getbyaddr_nosrv(struct netconfig *, struct nd_hostservlist **,
88     struct netbuf *);
89 int netdir_mergeaddr(struct netconfig *, char **muaddr, char *uaddr,
90     char *ruaddr);
91 void netdir_free(void *, int);
92 struct netbuf *uaddr2taddr(struct netconfig *, char *);
93 char *taddr2uaddr(struct netconfig *, struct netbuf *);
94 void netdir_perror(char *);
95 char *netdir_serror();
96 struct nd_addrlist *netdir_getbyname(struct netconfig *, struct nd_hostserv *);
97 struct nd_hostservlist *netdir_getbyaddr(struct netconfig *, struct netbuf *);
98 struct netbuf *uaddr2taddr(struct netconfig *, char *);
99 char *taddr2uaddr(struct netconfig *, struct netbuf *);
100 char *netdir_mergeaddr(struct netconfig *, char *uaddr, char *ruaddr);

104 #else /* __STDC__ */

106 int netdir_options();
107 int netdir_getbyname();
108 int netdir_getbyaddr();
109 int netdir_mergeaddr();
110 void netdir_free();
111 struct netbuf *uaddr2taddr();
112 void netdir_perror();
113 char *netdir_serror();
114 char *taddr2uaddr();
115 struct nd_addrlist *netdir_getbyname();
116 struct nd_hostservlist *netdir_getbyaddr();
117 char *netdir_mergeaddr();
118 struct netbuf *uaddr2taddr();
119 char *taddr2uaddr();

121 #endif /* __STDC__ */

102 /*
103  * These are all objects that can be freed by netdir_free
104  */
105 #define ND_HOSTSERV      0
106 #define ND_HOSTSERVLIST 1
107 #define ND_ADDR      2
108 #define ND_ADDRLIST      3

110 /*
111  * These are the various errors that can be encountered while attempting
112  * to translate names to addresses. Note that none of them (except maybe
113  * no memory) are truly fatal unless the ntoa daemon is on its last attempt
114  * to translate the name. First four errors are to facilitate return values
115  * from DNS, that are used by mail and others.
116  *
117  * Negative errors terminate the search resolution process, positive errors
118  * are treated as warnings.
```

```
119 */
121 #define ND_TRY_AGAIN    -5    /* Non-Authoritive Host not found, or */
122                        /* SERVERFAIL */
123 #define ND_NO_RECOVERY -4    /* Non recoverable errors, FORMERR, REFUSED, */
124                        /* NOTIMP */
125 #define ND_NO_DATA     -3    /* Valid name, no data record of requested */
126                        /* type */
127 #define ND_NO_ADDRESS ND_NO_DATA /* no address, look for MX record */
128 #define ND_BADARG      -2    /* Bad arguments passed */
129 #define ND_NOMEM       -1    /* No virtual memory left */
130 #define ND_OK          0     /* Translation successful */
131 #define ND_NOHOST      1     /* Hostname was not resolvable */
132 #define ND_NOSERV      2     /* Service was unknown */
133 #define ND_NOSYM       3     /* Couldn't resolve symbol */
134 #define ND_OPEN        4     /* File couldn't be opened */
135 #define ND_ACCESS      5     /* File is not accessible */
136 #define ND_UKNWN       6     /* Unknown object to be freed */
137 #define ND_NOCTRL      7     /* Unknown option passed to netdir_options */
138 #define ND_FAILCTRL    8     /* Option failed in netdir_options */
139 #define ND_SYSTEM      9     /* Other System error */

141 /*
142 * The following netdir_options commands can be given to the fd. These is
143 * a way of providing for any transport specific action which the caller
144 * may want to initiate on his transport. It is up to the trasport provider
145 * to support the netdir_options he wants to support.
146 */

148 #define ND_SET_BROADCAST 1     /* Do t_optmgmt to support broadcast */
149 #define ND_SET_RESERVEDPORT 2 /* bind it to reserve address */
150 #define ND_CHECK_RESERVEDPORT 3 /* check if address is reserved */
151 #define ND_MERGEADDR     4     /* Merge universal address */

153 /*
154 * The following special case host names are used to give the underlying
155 * transport provides a clue as to the intent of the request.
156 */

158 #define HOST_SELF        "\\1"
159 #define HOST_ANY         "\\2"
160 #define HOST_BROADCAST  "\\3"
161 #define HOST_SELF_BIND  HOST_SELF
162 #define HOST_SELF_CONNECT "\\4"

164 #ifdef __cplusplus
165 }
  unchanged_portion_omitted
```

new/usr/src/head/nl\_types.h

1

```
*****
3561 Sat Aug  2 23:27:10 2014
new/usr/src/head/nl_types.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * nl_types.h
24  *
25  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
26  *
27  * Copyright (c) 1991,1997,2000 by Sun Microsystems, Inc.
28  * All rights reserved.
29  */

31 /*      Copyright (c) 1988 AT&T */
32 /*      All Rights Reserved      */

34 #ifndef _NL_TYPES_H
35 #define _NL_TYPES_H

36 #pragma ident      "%Z%M% %I%      %E% SMI"

37 #include <sys/isa_defs.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 #define NL_SETD      1      /* XPG3 Conformant Default set number. */
44 #define NL_CAT_LOCALE      (-1) /* XPG4 requirement */

46 #define _CAT_MAGIC      0xFF88FF89
47 #define _CAT_HDR_SIZE      sizeof (struct _cat_hdr)
48 #define _CAT_SET_HDR_SIZE      sizeof (struct _cat_set_hdr)
49 #define _CAT_MSG_HDR_SIZE      sizeof (struct _cat_msg_hdr)

51 struct _cat_hdr
52 {
53 #if      !defined(_LP64)
54     long __hdr_magic;          /* must contain CAT_MAGIC */
55 #else
56     int __hdr_magic;          /* must contain CAT_MAGIC */
57 #endif
58     int __nsets;              /* the number of sets in the catalogue */
59     int __mem;                /* the size of the catalogue; the size      */

```

new/usr/src/head/nl\_types.h

2

```
60                                     /* does not include the size of the header */
61 #if      !defined(_LP64)
62     long __msg_hdr_offset; /* the byte offset of the first message */
63     /* header */
64     long __msg_text_offset; /* the byte offset of the message text area */
65 #else
66     int __msg_hdr_offset; /* the byte offset of the first message */
67     /* header */
68     int __msg_text_offset; /* the byte offset of the message text area */
69 #endif
70 };
    unchanged portion omitted

101 typedef struct _nl_catd_struct *nl_catd;
102 typedef int nl_item; /* XPG3 Conformant for nl_langinfo(). */

104 /* The following is just for the compatibility between OSF and Solaris */
105 /* Need to be removed later */
106 typedef nl_item __nl_item;

108 #ifdef __STDC__
109 int catclose(nl_catd);
110 char *catgets(nl_catd, int, int, const char *);
111 nl_catd catopen(const char *, int);
112 #else
113 int catclose();
114 char *catgets();
115 nl_catd catopen();
116 #endif /* __STDC__ */

112 #ifdef __cplusplus
113 }
    unchanged portion omitted

```

new/usr/src/head/nlist.h

1

\*\*\*\*\*

1406 Sat Aug 2 23:27:10 2014

new/usr/src/head/nlist.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */
```

```
29 #ifndef _NLIST_H
30 #define _NLIST_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.8.2.4 */
```

```
32 #ifdef __cplusplus
33 extern "C" {
34 #endif
```

```
36 struct nlist {
37     char      *n_name;      /* symbol name */
38     long      n_value;      /* value of symbol */
39     short     n_scnnum;     /* section number */
40     unsigned short n_type;  /* type and derived type */
41     char      n_sclass;    /* storage class */
42     char      n_numaux;    /* number of aux. entries */
43 };
```

```
44 #if defined(__STDC__)
45 extern int nlist(const char *, struct nlist *);
46 #else /* __STDC__ */
47 extern int nlist();
48 #endif /* __STDC__ */
```

```
47 #ifdef __cplusplus
48 }
unchanged_portion_omitted
```

```

*****
2560 Sat Aug 2 23:27:10 2014
new/usr/src/head/nsctl.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 #ifndef _NSCTL_H
29 #define _NSCTL_H

31 #ifdef __cplusplus
32 extern "C" {
33 #endif

35 #include <sys/nsctl/nsctl.h>

38 /*
39  * External file descriptor.
40 */

42 #ifndef _LIBNSCTL_H
43 #ifndef _KMEMUSER
44 typedef struct nsc_fd_s { int x; } nsc_fd_t;
45 #endif
46 #endif

49 /*
50  * Runtime Solaris release checking.
51  *
52  * nsc_check_release() is called with the string build release
53  * (BUILD_REV_STR) and an optional array of nsc_release_t. The array
54  * defines a map of build release to acceptable runtime release for the
55  * component. The build release is always an acceptable runtime
56  * release and need not be included in the map.
57  *
58  * build - the build release (e.g. "5.7")
59  * runtime - comma &/or space separated list of acceptable runtime
60  * releases (e.g. "5.7, 5.8")
61 */

```

```

63 typedef struct nsc_release {
64     const char *build; /* build release */
65     const char *runtime; /* runtime release(s) */
66 } nsc_release_t;

66 #ifdef __STDC__
67 extern void _nsc_noccheck(void);
68 extern nsc_fd_t *nsc_open(char *, int, int);
69 extern nsc_fd_t *nsc_fdopen(int, char *, int);
70 extern int nsc_close(nsc_fd_t *);
71 extern int nsc_fileno(nsc_fd_t *);
72 extern int nsc_reserve(nsc_fd_t *);
73 extern int nsc_release(nsc_fd_t *);
74 extern int nsc_partsize(nsc_fd_t *, nsc_size_t *);
75 extern int nsc_freeze(char *path);
76 extern int nsc_unfreeze(char *path);
77 extern int nsc_isfrozen(char *path);
78 extern int nsc_getsystemid(int *id);
79 extern int nsc_name_to_id(char *name, int *id);
80 extern int nsc_id_to_name(char **name, int id);
81 extern int nsc_check_release(const char *, nsc_release_t *, char **);
82 #else
83 extern void _nsc_noccheck();
84 extern nsc_fd_t *nsc_open();
85 extern nsc_fd_t *nsc_fdopen();
86 extern int nsc_close();
87 extern int nsc_fileno();
88 extern int nsc_reserve();
89 extern int nsc_release();
90 extern int nsc_partsize();
91 extern int nsc_freeze();
92 extern int nsc_unfreeze();
93 extern int nsc_isfrozen();
94 extern int nsc_getsystemid();
95 extern int nsc_name_to_id();
96 extern int nsc_id_to_name();
97 extern int nsc_check_release();
98 #endif

84 #ifdef __cplusplus
85 }

```

unchanged\_portion\_omitted

```

*****
17652 Sat Aug  2 23:27:10 2014
new/usr/src/head/nss_common.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*
29 *
30 * NOTE: The interfaces documented in this file may change in a minor
31 * release. It is intended that in the future a stronger committment
32 * will be made to these interface definitions which will guarantee
33 * them across minor releases.
34 */

36 #ifndef _NSS_COMMON_H
37 #define _NSS_COMMON_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"

39 #include <synch.h>

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 /*
46 * The name-service switch
47 * -----
48 *
49 * From nsswitch.conf(4):
50 *
51 *     The operating system uses a number of "databases" of information
52 *     about hosts, users (passwd/shadow), groups and so forth. Data for
53 *     these can come from a variety of "sources": host-names and
54 *     -addresses, for example, may be found in /etc/hosts, NIS, NIS+ or
55 *     DNS. One or more sources may be used for each database; the
56 *     sources and their lookup order are specified in the
57 *     /etc/nsswitch.conf file.
58 *
59 * The implementation of this consists of:

```

```

60 *
61 * - a "frontend" for each database, which provides a programming
62 * interface for that database [for example, the "passwd" frontend
63 * consists of getpwnam_r(), getpuid_r(), getpwent_r(), setpwent(),
64 * endpwent(), and the old MT-unsafe routines getpwnam() and getpuid()]
65 * and is implemented by calls to...
66 *
67 *
68 * - the common core of the switch (called the "switch" or "policy" engine);
69 * that determines what sources to use and when to invoke them. This
70 * component works in conjunction with the name service switch (nscd).
71 * Usually nscd is the policy engine for an application lookup.
72 *
73 * - Old style backend interfaces follow this pointer to function interface:
74 *
75 * A "backend" exists for useful <database, source> pairs. Each backend
76 * consists of whatever private data it needs and a set of functions
77 * that the switch engine may invoke on behalf of the frontend
78 * [e.g. the "nis" backend for "passwd" provides routines to lookup
79 * by name and by uid, as well as set/get/end iterator routines].
80 * The set of functions, and their expected arguments and results,
81 * constitutes a (database-specific) interface between a frontend and
82 * all its backends. The switch engine knows as little as possible
83 * about these interfaces.
84 *
85 * (The term "backend" is used ambiguously; it may also refer to a
86 * particular instantiation of a backend, or to the set of all backends
87 * for a particular source, e.g. "the nis backend").
88 *
89 * This header file defines the interface between the switch engine and the
90 * frontends and backends. Interfaces between specific frontends and
91 * backends are defined elsewhere; many are in <nss_dbdefs.h>.
92 * Most of these definitions are in the form of pointer to function
93 * indicies used to call specific backend APIs.
94 *
95 * Switch-engine outline
96 * -----
97 *
98 * Frontends may call the following routines in the switch engine:
99 *
100 * nss_search() does getXXXbyYYY, e.g. getpwnam_r(), getpuid_r()
101 * nss_getent() does getXXXent, e.g. getpwent_r()
102 * nss_setent() does setXXXent, e.g. setpwent()
103 * nss_endent() does endXXXent, e.g. endpwent()
104 * nss_delete() releases resources, in the style of endpwent().
105 *
106 * A getpwnam_r() call might proceed thus (with many details omitted):
107 *
108 * (1) getpwnam_r fills in (getpwnam-specific) argument/result struct,
109 * calls nss_search(),
110 * (2) nss_search queries the name service cache for an existing
111 * result via a call to _nsc_search(). If the cache
112 * (nscd) has a definitive answer skip to step 7
113 * (3) nss_search looks up configuration info, gets "passwd: files nis",
114 * (4) nss_search decides to try first source ("files"),
115 * (a) nss_search locates code for <"passwd", "files"> backend,
116 * (b) nss_search creates instance of backend,
117 * (c) nss_search calls get-by-name routine in backend,
118 * through a function pointer interface,
119 * (d) backend searches /etc/passwd, doesn't find the name,
120 * returns "not found" status to nss_search,
121 * (5) nss_search examines status and config info, decides to try
122 * next source ("nis"),
123 * (a) nss_search locates code for <"passwd", "nis"> backend,
124 * (b) nss_search creates instance of backend,
125 * (c) nss_search calls get-by-name routine in backend,

```

```

126 *           through a function pointer interface,
127 *           (d) backend searches passwd.byname, finds the desired entry,
128 *           fills in the result part of the getpwnam-specific
129 *           struct, returns "success" status to nss_search,
130 *           (6) nss_search examines status and config info, decides to return
131 *           to caller,
132 *           (7) getpwnam_r extracts result from getpwnam-specific struct,
133 *           returns to caller.
134 *
135 * Data structures
136 * -----
137 *
138 * Both databases and sources are represented by case-sensitive strings
139 * (the same strings that appear in the configuration file).
140 *
141 * The switch engine maintains a per-frontend data structure so that the
142 * results of steps (2), (a) and (b) can be cached. The frontend holds a
143 * handle (nss_db_root_t) to this structure and passes it in to the
144 * nss_*(()) routines.
145 *
146 * The nss_setent(), nss_getent() and nss_endent() routines introduce another
147 * variety of state (the current position in the enumeration process).
148 * Within a single source, this information is maintained by private data
149 * in the backend instance -- but, in the presence of multiple sources, the
150 * switch engine must keep track of the current backend instance [e.g either
151 * <"passwd", "files"> or <"passwd", "nis"> instances]. The switch engine
152 * has a separate per-enumeration data structure for this; again, the
153 * frontend holds a handle (nss_getent_t) and passes it in, along with the
154 * nss_db_root_t handle, to nss_setent(), nss_getent() and nss_endent().
155 *
156 * Multithreading
157 * -----
158 *
159 * The switch engine takes care of locking; frontends should be written to
160 * be reentrant, and a backend instance may assume that all calls to it are
161 * serialized.
162 *
163 * If multiple threads simultaneously want to use a particular backend, the
164 * switch engine creates multiple backend instances (up to some limit
165 * specified by the frontend). Backends must of course lock any state that
166 * is shared between instances, and must serialize calls to any MT-unsafe
167 * code.
168 *
169 * The switch engine has no notion of per-thread state.
170 *
171 * Frontends can use the nss_getent_t handle to define the scope of the
172 * enumeration (set/get/endXXXent) state: a static handle gives global state
173 * (which is what Posix has specified for the getXXXent_r routines), handles
174 * in Thread-Specific Data give per-thread state, and handles on the stack
175 * give per-invocation state.
176 *
177 *
178 */
179
180 /*
181 * Backend instances
182 * -----
183 *
184 * As far as the switch engine is concerned, an instance of a backend is a
185 * struct whose first two members are:
186 * - A pointer to a vector of function pointers, one for each
187 *   database-specific function,
188 * - The length of the vector (an int), used for bounds-checking.
189 * There are four well-known function slots in the vector:
190 * [0] is a destructor for the backend instance,
191 * [1] is the endXXXent routine,

```

```

192 *           [2] is the setXXXent routine,
193 *           [3] is the getXXXent routine.
194 * Any other slots are database-specific getXXXbyYYY routines; the frontend
195 * specifies a slot-number to nss_search().
196 *
197 * The functions take two arguments:
198 * - a pointer to the backend instance (like a C++ "this" pointer)
199 * - a single (void *) pointer to the database-specific argument/result
200 *   structure (the contents are opaque to the switch engine).
201 * The four well-known functions ignore the (void *) pointer.
202 *
203 * Backend routines return the following status codes to the switch engine:
204 *
205 * SUCCESS, UNAVAIL, NOTFOUND, TRYAGAIN (these are the same codes that may
206 * be specified in the config information; see nsswitch.conf(4))
207 *
208 * The remaining conditions/errors are internally generated and if
209 * necessary are translated, as to one of the above external errors,
210 * usually NOTFOUND or UNAVAIL.
211 *
212 * NSS_NISSERVDNS_TRYAGAIN (should only be used by the NIS backend for
213 * NIS server in DNS forwarding mode to indicate DNS server non-response).
214 *
215 * The policy component may return NSS_TRYLOCAL which signifies that nscd
216 * is not going to process the request, and it should be performed locally.
217 *
218 * NSS_ERROR is a catchall for internal error conditions, errno will be set
219 * to a system <errno.h> error that can help track down the problem if
220 * it is persistent. This error is the result of some internal error
221 * condition and should not be seen during or exposed to an application.
222 * The error may be from the application side switch component or from the
223 * nscd side switch component.
224 *
225 * NSS_ALTRETRY and NSS_ALTRESET are internal codes used by the application
226 * side policy component and nscd to direct the policy component to
227 * communicate to a per-user nscd if/when per-user authentication is enabled.
228 *
229 * NSS_NSCD_PRIV is a catchall for internal nscd errors or status
230 * conditions. This return code is not visible to applications. nscd
231 * may use this as a status flag and maintain additional error or status
232 * information elsewhere in other private nscd data. This status value
233 * is for nscd private/internal use only.
234 */
235
236 typedef enum {
237     NSS_SUCCESS = 0,
238     NSS_NOTFOUND = 1,
239     NSS_UNAVAIL = 2,
240     NSS_TRYAGAIN = 3,
241     NSS_NISSERVDNS_TRYAGAIN = 4,
242     NSS_TRYLOCAL = 5,
243     NSS_ERROR = 6,
244     NSS_ALTRETRY = 7,
245     NSS_ALTRESET = 8,
246     NSS_NSCD_PRIV = 9
247 } nss_status_t;
248
249 struct nss_backend;
250
251 #if defined(__STDC__)
252 typedef nss_status_t (*nss_backend_op_t)(struct nss_backend *, void *args);
253 #else
254 typedef nss_status_t (*nss_backend_op_t)();
255 #endif
256
257 struct nss_backend {

```

```

254     nss_backend_op_t      *ops;
255     int                   n_ops;
256 };
257 typedef struct nss_backend nss_backend_t;
258 typedef int               nss_dbop_t;

260 #define NSS_DBOP_DESTRUCTOR    0
261 #define NSS_DBOP_ENDENT       1
262 #define NSS_DBOP_SETENT       2
263 #define NSS_DBOP_GETENT       3
264 #define NSS_DBOP_next_iter    (NSS_DBOP_GETENT + 1)
265 #define NSS_DBOP_next_noiter  (NSS_DBOP_DESTRUCTOR + 1)
266 #define NSS_DBOP_next_ipv6_iter (NSS_DBOP_GETENT + 3)

268 #define NSS_LOOKUP_DBOP(instp, n) \
269     (((n) >= 0 && (n) < (instp)->n_ops) ? (instp)->ops[n] : 0) \

271 #define NSS_INVOKE_DBOP(instp, n, argp) \
272     ((n) >= 0 && (n) < (instp)->n_ops && (instp)->ops[n] != 0) \
273     ? (*(instp)->ops[n])(instp, argp) \
274     : NSS_UNAVAIL)

276 /*
277  * Locating and instantiating backends
278  * -----
279  *
280  * To perform step (a), the switch consults a list of backend-finder routines,
281  * passing a <database, source> pair.
282  *
283  * There is a standard backend-finder; frontends may augment or replace this
284  * in order to, say, indicate that some backends are "compiled in" with the
285  * frontend.
286  *
287  * Backend-finders return a pointer to a constructor function for the backend.
288  * (or NULL if they can't find the backend). The switch engine caches these
289  * function pointers; when it needs to perform step (b), it calls the
290  * constructor function, which returns a pointer to a new instance of the
291  * backend, properly initialized (or returns NULL).
292  */

298 #if defined(__STDC__)
294 typedef nss_backend_t      *(*nss_backend_constr_t)(const char *db_name,
295                                                    const char *src_name,
296                                                    const char *cfg_args);
302 #else
303 typedef nss_backend_t      *(*nss_backend_constr_t)();
304 #endif

298 struct nss_backend_finder {
307 #if defined(__STDC__)
299     nss_backend_constr_t  (*lookup)
300     (void *lkp_priv, const char *, const char *, void **del_priv);
301     void                  (*delete)
302     (void *del_priv, nss_backend_constr_t);
312 #else
313     nss_backend_constr_t  (*lookup)();
314     void                  (*delete)();
315 #endif
303     struct nss_backend_finder *next;
304     void                  *lookup_priv;
305 };
    unchanged portion omitted

363 typedef struct nss_db_params nss_db_params_t;

378 #if defined(__STDC__)

```

```

365 typedef void (*nss_db_initf_t)(nss_db_params_t *);
380 #else
381 typedef void (*nss_db_initf_t)();
382 #endif

367 /*
368  * DBD param offsets in NSS2 nscd header.
369  * Offsets are relative to beginning of dbd section.
370  * 32 bit offsets should be sufficient, forever.
371  * 0 offset == NULL
372  * flags == nss_dbp_flags
373  */
374 typedef struct nss_dbd {
375     uint32_t      o_name;
376     uint32_t      o_config_name;
377     uint32_t      o_default_config;
378     uint32_t      flags;
379 } nss_dbd_t;
    unchanged portion omitted
434 typedef struct nss_config nss_config_t;

454 #if defined(__STDC__)
437 extern nss_status_t nss_config(nss_config_t **, int);

439 extern nss_status_t nss_search(nss_db_root_t *, nss_db_initf_t,
440                               int search_fnum, void *search_args);
441 extern nss_status_t nss_getent(nss_db_root_t *, nss_db_initf_t, nss_getent_t *,
442                               void *getent_args);
443 extern void nss_setent(nss_db_root_t *, nss_db_initf_t, nss_getent_t *);
444 extern void nss_endent(nss_db_root_t *, nss_db_initf_t, nss_getent_t *);
445 extern void nss_delete(nss_db_root_t *);

447 extern nss_status_t nss_pack(void *, size_t, nss_db_root_t *,
448                             nss_db_initf_t, int, void *);
449 extern nss_status_t nss_pack_ent(void *, size_t, nss_db_root_t *,
450                                 nss_db_initf_t, nss_getent_t *);
451 extern nss_status_t nss_unpack(void *, size_t, nss_db_root_t *,
452                               nss_db_initf_t, int, void *);
453 extern nss_status_t nss_unpack_ent(void *, size_t, nss_db_root_t *,
454                                   nss_db_initf_t, nss_getent_t *, void *);

456 extern nss_status_t _nsc_search(nss_db_root_t *, nss_db_initf_t,
457                                int search_fnum, void *search_args);
458 extern nss_status_t _nsc_getent_u(nss_db_root_t *, nss_db_initf_t,
459                                   nss_getent_t *, void *getent_args);
460 extern nss_status_t _nsc_setent_u(nss_db_root_t *, nss_db_initf_t,
461                                   nss_getent_t *);
462 extern nss_status_t _nsc_endent_u(nss_db_root_t *, nss_db_initf_t,
463                                   nss_getent_t *);

483 #else
484 extern nss_status_t nss_config();

486 extern nss_status_t nss_search();
487 extern nss_status_t nss_getent();
488 extern void nss_setent();
489 extern void nss_endent();
490 extern void nss_delete();

492 extern int nss_pack();
493 extern int nss_pack_ent();
494 extern int nss_unpack();
495 extern int nss_unpack_ent();

497 extern nss_status_t _nsc_search();

```



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7

```
498 extern nss_status_t _nsc_getent_u();  
499 extern nss_status_t _nsc_setent_u();  
500 extern nss_status_t _nsc_endent_u();  
501 #endif
```

```
466 #ifdef __cplusplus  
467 }
```

unchanged\_portion\_omitted

new/usr/src/head/nss\_dbdefs.h

1

```
*****
28480 Sat Aug  2 23:27:10 2014
new/usr/src/head/nss_dbdefs.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 *
27 * Database-specific definitions for the getXXXbyYYY routines
28 * (e.g getpwuid_r(), ether_ntohost()) that use the name-service switch.
29 * Database-independent definitions are in <nss_common.h>
30 *
31 * Ideally, this is the only switch header file one would add things
32 * to in order to support a new database.
33 *
34 * NOTE: The interfaces documented in this file may change in a minor
35 * release. It is intended that in the future a stronger commitment
36 * will be made to these interface definitions which will guarantee
37 * them across minor releases.
38 */

40 #ifndef __NSS_DBDEFS_H
41 #define __NSS_DBDEFS_H

43 #include <sys/types.h>
44 #include <unistd.h>
45 #include <errno.h>
46 #include <netdb.h>          /* MAXALIASES, MAXADDRS */
47 #include <limits.h>        /* LOGNAME_MAX */
48 #include <nss_common.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

54 #ifndef NSS_INCLUDE_UNSAFE
55 #define NSS_INCLUDE_UNSAFE 1          /* Build old, MT-unsafe interfaces, */
56 #endif /* NSS_INCLUDE_UNSAFE */      /* e.g. getpwnam (c.f. getpwnam_r) */

58 /*
59 * Names of the well-known databases.
60 */
```

new/usr/src/head/nss\_dbdefs.h

2

```
62 #define NSS_DBNAM_ALIASES      "aliases"          /* E-mail aliases, that is */
63 #define NSS_DBNAM_AUTOMOUNT    "automount"
64 #define NSS_DBNAM_BOOTPARAMS   "bootparams"
65 #define NSS_DBNAM_ETHERS       "ethers"
66 #define NSS_DBNAM_GROUP        "group"
67 #define NSS_DBNAM_HOSTS        "hosts"
68 #define NSS_DBNAM_IPNODES      "ipnodes"
69 #define NSS_DBNAM_NETGROUP     "netgroup"
70 #define NSS_DBNAM_NETMASKS     "netmasks"
71 #define NSS_DBNAM_NETWORKS     "networks"
72 #define NSS_DBNAM_PASSWD       "passwd"
73 #define NSS_DBNAM_PRINTERS     "printers"
74 #define NSS_DBNAM_PROJECT      "project"
75 #define NSS_DBNAM_PROTOCOLS    "protocols"
76 #define NSS_DBNAM_PUBLICKEY    "publickey"
77 #define NSS_DBNAM_RPC          "rpc"
78 #define NSS_DBNAM_SERVICES     "services"
79 #define NSS_DBNAM_AUDITUSER    "audit_user"
80 #define NSS_DBNAM_AUTHATTR     "auth_attr"
81 #define NSS_DBNAM_EXECATTR     "exec_attr"
82 #define NSS_DBNAM_PROFATTR     "prof_attr"
83 #define NSS_DBNAM_USERATTR     "user_attr"

85 #define NSS_DBNAM_TSOL_TP       "tnrhtp"
86 #define NSS_DBNAM_TSOL_RH      "tnrhdb"
87 #define NSS_DBNAM_TSOL_ZC      "tnzonecfg"

89 /* getsppnam() et al use the "passwd" config entry but the "shadow" backend */
90 #define NSS_DBNAM_SHADOW        "shadow"

92 /* The "compat" backend gets config entries for these pseudo-databases */
93 #define NSS_DBNAM_PASSWD_COMPAT "passwd_compat"
94 #define NSS_DBNAM_GROUP_COMPAT  "group_compat"

96 /*
97 * Default switch configuration, compiled into the front-ends.
98 *
99 * Absent good reasons to the contrary, this should be compatible with the
100 * default /etc/nsswitch.conf file.
101 */
102 #define NSS_FILES_ONLY          "files"
103 #define NSS_FILES_NS           "files nis"
104 #define NSS_NS_FALLBACK        "nis [NOTFOUND=return] files"
105 #define NSS_NS_ONLY            "nis"
106 #define NSS_TSOL_FALLBACK      "files ldap"

108 #define NSS_DEFCONF_ALIASES     NSS_FILES_NS
109 #define NSS_DEFCONF_AUTOMOUNT  NSS_FILES_NS
110 #define NSS_DEFCONF_BOOTPARAMS NSS_NS_FALLBACK
111 #define NSS_DEFCONF_ETHERS     NSS_NS_FALLBACK
112 #define NSS_DEFCONF_GROUP      NSS_FILES_NS
113 #define NSS_DEFCONF_HOSTS      NSS_NS_FALLBACK
114 #define NSS_DEFCONF_IPNODES    NSS_NS_FALLBACK
115 #define NSS_DEFCONF_NETGROUP   NSS_NS_ONLY
116 #define NSS_DEFCONF_NETMASKS   NSS_NS_FALLBACK
117 #define NSS_DEFCONF_NETWORKS   NSS_NS_FALLBACK
118 #define NSS_DEFCONF_PASSWD     NSS_FILES_NS
119 #define NSS_DEFCONF_PRINTERS    "user files nis"
120 #define NSS_DEFCONF_PROJECT    NSS_FILES_NS
121 #define NSS_DEFCONF_PROTOCOLS  NSS_NS_FALLBACK
122 #define NSS_DEFCONF_PUBLICKEY  NSS_FILES_NS
123 #define NSS_DEFCONF_RPC        NSS_NS_FALLBACK
124 #define NSS_DEFCONF_SERVICES    NSS_FILES_NS /* speeds up byname() */

126 #define NSS_DEFCONF_GROUP_COMPAT NSS_NS_ONLY
127 #define NSS_DEFCONF_PASSWD_COMPAT NSS_NS_ONLY
```

```

129 #define NSS_DEFCONF_ATTRDB      NSS_FILES_NS

131 #define NSS_DEFCONF_AUDITUSER   NSS_DEFCONF_PASSWD
132 #define NSS_DEFCONF_USERATTR   NSS_DEFCONF_PASSWD
133 #define NSS_DEFCONF_AUTHATTR   NSS_DEFCONF_ATTRDB
134 #define NSS_DEFCONF_PROFATTR   NSS_DEFCONF_ATTRDB
135 #define NSS_DEFCONF_EXECATTR   NSS_DEFCONF_PROFATTR

137 #define NSS_DEFCONF_TSOL_TP     NSS_TSOL_FALLBACK
138 #define NSS_DEFCONF_TSOL_RH   NSS_TSOL_FALLBACK
139 #define NSS_DEFCONF_TSOL_ZC   NSS_TSOL_FALLBACK

141 /*
142  * Line-lengths that the "files" and "compat" backends will try to support.
143  * It may be reasonable (even advisable) to use smaller values than these.
144  */

146 #define NSS_BUFSIZ              1024

148 #define NSS_LINELEN_GROUP       ((NSS_BUFSIZ) * 8)
149 #define NSS_LINELEN_HOSTS      ((NSS_BUFSIZ) * 8)
150 #define NSS_LINELEN_IPNODES    ((NSS_BUFSIZ) * 8)
151 #define NSS_LINELEN_NETMASKS   NSS_BUFSIZ
152 #define NSS_LINELEN_NETWORKS   NSS_BUFSIZ
153 #define NSS_LINELEN_PASSWD     NSS_BUFSIZ
154 #define NSS_LINELEN_PRINTERS   NSS_BUFSIZ
155 #define NSS_LINELEN_PROJECT    ((NSS_BUFSIZ) * 4)
156 #define NSS_LINELEN_PROTOCOLS  NSS_BUFSIZ
157 #define NSS_LINELEN_PUBLICKEY  NSS_BUFSIZ
158 #define NSS_LINELEN_RPC        NSS_BUFSIZ
159 #define NSS_LINELEN_SERVICES   NSS_BUFSIZ
160 #define NSS_LINELEN_SHADOW     NSS_BUFSIZ
161 #define NSS_LINELEN_ETHERS     NSS_BUFSIZ
162 #define NSS_LINELEN_BOOTPARAMS NSS_BUFSIZ

164 #define NSS_LINELEN_ATTRDB     NSS_BUFSIZ

166 #define NSS_LINELEN_AUDITUSER  NSS_LINELEN_ATTRDB
167 #define NSS_LINELEN_AUTHATTR  NSS_LINELEN_ATTRDB
168 #define NSS_LINELEN_EXECATTR  NSS_LINELEN_ATTRDB
169 #define NSS_LINELEN_PROFATTR  NSS_LINELEN_ATTRDB
170 #define NSS_LINELEN_USERATTR  NSS_LINELEN_ATTRDB

172 #define NSS_MMAPLEN_EXECATTR  NSS_LINELEN_EXECATTR * 8

174 #define NSS_LINELEN_TSOL      NSS_BUFSIZ

176 #define NSS_LINELEN_TSOL_TP   NSS_LINELEN_TSOL
177 #define NSS_LINELEN_TSOL_RH  NSS_LINELEN_TSOL
178 #define NSS_LINELEN_TSOL_ZC  NSS_LINELEN_TSOL

180 /*
181  * Reasonable defaults for 'buflen' values passed to _r functions. The BSD
182  * and SunOS 4.x implementations of the getXXXbyYYY() functions used hard-
183  * coded array sizes; the values here are meant to handle anything that
184  * those implementations handled.
185  * === These might more reasonably go in <pwd.h>, <netdb.h> et al
186  */

188 #define NSS_BUFLN_GROUP        NSS_LINELEN_GROUP
189 #define NSS_BUFLN_HOSTS        \
190     (NSS_LINELEN_HOSTS + (MAXALIASES + MAXADDRS + 2) * sizeof (char *))
191 #define NSS_BUFLN_IPNODES     \
192     (NSS_LINELEN_IPNODES + (MAXALIASES + MAXADDRS + 2) * sizeof (char *))
193 #define NSS_BUFLN_NETGROUP     (MAXHOSTNAMELEN * 2 + LOGNAME_MAX + 3)

```

```

194 #define NSS_BUFLN_NETWORKS    NSS_LINELEN_NETWORKS /* === ? + 35 * 4 */
195 #define NSS_BUFLN_PASSWD     NSS_LINELEN_PASSWD
196 #define NSS_BUFLN_PROJECT    (NSS_LINELEN_PROJECT + 800 * sizeof (char *))
197 #define NSS_BUFLN_PROTOCOLS  NSS_LINELEN_PROTOCOLS /* === ? + 35 * 4 */
198 #define NSS_BUFLN_PUBLICKEY  NSS_LINELEN_PUBLICKEY
199 #define NSS_BUFLN_RPC        NSS_LINELEN_RPC /* === ? + 35 * 4 */
200 #define NSS_BUFLN_SERVICES   NSS_LINELEN_SERVICES /* === ? + 35 * 4 */
201 #define NSS_BUFLN_SHADOW     NSS_LINELEN_SHADOW
202 #define NSS_BUFLN_ETHERS     NSS_LINELEN_ETHERS
203 #define NSS_BUFLN_BOOTPARAMS NSS_LINELEN_BOOTPARAMS

205 #define NSS_BUFLN_ATTRDB     NSS_LINELEN_ATTRDB

207 #define NSS_BUFLN_AUDITUSER  NSS_BUFLN_ATTRDB
208 #define NSS_BUFLN_AUTHATTR  NSS_BUFLN_ATTRDB
209 #define NSS_BUFLN_EXECATTR  NSS_BUFLN_ATTRDB
210 #define NSS_BUFLN_PROFATTR  NSS_BUFLN_ATTRDB
211 #define NSS_BUFLN_USERATTR  ((NSS_BUFLN_ATTRDB) * 8)

213 #define NSS_BUFLN_TSOL       NSS_LINELEN_TSOL
214 #define NSS_BUFLN_TSOL_TP   NSS_BUFLN_TSOL
215 #define NSS_BUFLN_TSOL_RH  NSS_BUFLN_TSOL
216 #define NSS_BUFLN_TSOL_ZC  NSS_BUFLN_TSOL

218 /*
219  * Default cache door buffer size (2x largest buffer)
220  */

222 #define NSS_BUFLN_DOOR       ((NSS_BUFSIZ) * 16)

224 /*
225  * Arguments and results, passed between the frontends and backends for
226  * the well-known databases. The getXbyY_r() and getXent_r() routines
227  * use a common format that is further described below; other routines
228  * use their own formats.
229  */

231 /*
232  * The nss_str2ent_t routine is the data marshaller for the nsswitch.
233  * it converts 'native files' format into 'entry' format as part of the
234  * return processing for a getXbyY interface.
235  *
236  * The nss_groupstr_t routine does the real work for any backend
237  * that can supply a netgroup entry as a string in /etc/group format
238  */
239 #if defined(__STDC__)
240 typedef int (*nss_str2ent_t)(const char *in, int inlen,
void *ent, char *buf, int buflen);

242 struct nss_groupstr_t; /* forward definition */
243 typedef nss_status_t (*nss_groupstr_t)(const char *instr, int inlen,
struct nss_groupstr_t *);
244 #else
245 typedef int (*nss_str2ent_t)();
246 typedef nss_status_t (*nss_groupstr_t)();
247 #endif

248 /*
249  * The initgroups() function [see initgroups(3c)] needs to find all the
250  * groups to which a given user belongs. To do this it calls
251  * _getgroupsbymember(), which is part of the frontend for the "group"
252  * database.
253  * We want the same effect as if we used getgrent_r() to enumerate the
254  * entire groups database (possibly from multiple sources), but getgrent_r()
255  * is too inefficient. Most backends can do better if they know they're
256  * meant to scan all groups; hence there's a separate backend operation,

```

```

255 * NSS_DBOP_GROUP_BYMEMBER, which uses the nss_groupsbymem struct.
256 * Note that the normal return-value from such a backend, even when it
257 * successfully finds matching group entries, is NSS_NOTFOUND, because
258 * this tells the switch engine to keep searching in any more sources.
259 * In fact, the backends only return NSS_SUCCESS if they find enough
260 * matching entries that the gid_array is completely filled, in which
261 * case the switch engine should stop searching.
262 * If the force_slow_way field is set, the backend should eschew any cached
263 * information (e.g. the YP netid.byname map or the NIS+ cred.org_dir table)
264 * and should instead grind its way through the group map/table/whatever.
265 */

267 struct nss_groupsbymem {
268     /* in: */
269     const char    *username;
270     gid_t         *gid_array;
271     int           maxgids;
272     int           force_slow_way;
273     nss_str2ent_t str2ent;
274     nss_groupstr_t process_cstr;

276 /* in_out: */
277     int           numgids;
278 };
    unchanged_portion_omitted

379 #if defined(__STDC__)
376 extern nss_XbyY_buf_t *nss_XbyY_buf_alloc(int struct_size, int buffer_size);
377 extern void nss_XbyY_buf_free(nss_XbyY_buf_t *);
382 #else
383 extern nss_XbyY_buf_t *nss_XbyY_buf_alloc();
384 extern void nss_XbyY_buf_free();
385 #endif

379 #define NSS_XbyY_ALLOC(bufpp, str_size, buf_size)      (\
380     (*bufpp) == 0                                     \
381     ? (*bufpp) = nss_XbyY_buf_alloc(str_size, buf_size) \
382     : (*bufpp))

384 #define NSS_XbyY_FREE(bufpp)      (nss_XbyY_buf_free(*bufpp), (*bufpp) = 0)

386 /*
387 * The nss_XbyY_args_t struct contains all the information passed between
388 * frontends and backends for the getXbyY_r() and getXent() routines,
389 * including an nss_XbyY_buf_t and the lookup key (unused for getXXXent_r).
390 *
391 * The (*str2ent)() member converts a single XXXent from ASCII text to the
392 * appropriate struct, storing any pointer data (strings, in_addrs, arrays
393 * of these) in the buffer. The ASCII text is a counted string (*not* a
394 * zero-terminated string) whose length is specified by the instr_len
395 * parameter. The text is found at the address specified by instr and
396 * the string is treated as readonly. buffer and instr must be non-
397 * intersecting memory areas.
398 *
399 * With the exception of passwd, shadow and group, the text form for these
400 * databases allows trailing comments and arbitrary whitespace. The
401 * corresponding str2ent routine assumes that comments, leading whitespace
402 * and trailing whitespace have been stripped (and thus assumes that entries
403 * consisting only of these have been discarded).
404 *
405 * The text entries for "rpc" and for the databases described in <netdb.h>
406 * follow a common format (a canonical name with a possibly empty list
407 * of aliases, and some other value), albeit with minor variations.
408 * The function nss_netdb_aliases() does most of the generic work involved
409 * in parsing and marshalling these into the buffer.
410 */

```

```

412 typedef union nss_XbyY_key { /* No tag; backend should know what to expect */
413     uid_t         uid;
414     gid_t         gid;
415     projid_t      projid;
416     const char    *name;
417     int           number;
418     struct {
419         int       net;
420         int       type;
421         int       netaddr;
422     } struct {
423         const char *addr;
424         int        len;
425         int        type;
426     } hostaddr;
427     struct {
428         union {
429             const char *name;
430             int        port;
431         } serv;
432         const char    *proto;
433     } serv;
434     void *ether;
435     struct {
436         const char    *name;
437         const char    *keytype;
438     } pkey;
439     struct {
440         const char    *name;
441         int           af_family;
442         int           flags;
443     } ipnode;
444     void *attrp; /* for the new attr databases */
445 } nss_XbyY_key_t;

456 #if defined(__STDC__)
448 typedef int (*nss_key2str_t)(void *buffer, size_t buflen,
449     nss_XbyY_key_t *key, size_t *len);
459 #else
460 typedef int (*nss_key2str_t)();
461 #endif

452 typedef struct nss_XbyY_args {

454 /* IN */
455     nss_XbyY_buf_t buf;
456     int stayopen;
457     /*
458     * Support for setXXXent(stayopen)
459     * Used only in hosts, protocols,
460     * networks, rpc, and services.
461     */
462     nss_str2ent_t str2ent;
463     union nss_XbyY_key key;

465 /* OUT */
466     void *returnval;
467     int  errange;
468     int  herrno; /* For gethost*_r() */
469     nss_status_t status; /* from the backend last called */
470 /* NSS2 */
471     nss_key2str_t key2str; /* IN */
472     size_t returnlen; /* OUT */

```

```

474 /* NSCD/DOOR data */

476 /* ... buffer arena follows... */
477 } nss_XbyY_args_t;
    unchanged_portion_omitted

643 /* status returned by the str2ent parsing routines */
644 #define NSS_STR_PARSE_SUCCESS 0
645 #define NSS_STR_PARSE_PARSE 1
646 #define NSS_STR_PARSE_ERANGE 2

648 #define NSS_XbyY_INIT(str, res, bufp, len, func)      (\
649     (str)->buf.result = (res),                      \
650     (str)->buf.buffer = (bufp),                    \
651     (str)->buf buflen = (len),                     \
652     (str)->stayopen = 0,                          \
653     (str)->str2ent = (func),                       \
654     (str)->key2str = NULL,                         \
655     (str)->returnval = 0,                          \
656     (str)->returnlen = 0,                          \
657     (str)->h_errno = 0,                            \
658     (str)->erange = 0)

660 #define NSS_XbyY_INIT_EXT(str, res, bufp, len, func, kfunc)  (\
661     (str)->buf.result = (res),                      \
662     (str)->buf.buffer = (bufp),                    \
663     (str)->buf buflen = (len),                     \
664     (str)->stayopen = 0,                          \
665     (str)->str2ent = (func),                       \
666     (str)->key2str = (kfunc),                     \
667     (str)->returnval = 0,                          \
668     (str)->returnlen = 0,                          \
669     (str)->h_errno = 0,                            \
670     (str)->erange = 0)

672 #define NSS_XbyY_FINI(str)                          (\
673     (str)->returnval == 0 && (str)->erange && (errno = ERANGE), \
674     (str)->returnval)

676 #define NSS_PACKED_CRED_CHECK(buf, ruid, euid)      (\
677     ((nss_pheader_t *) (buf))->p_ruid == (ruid) && \
678     ((nss_pheader_t *) (buf))->p_euid == (euid))

692 #if defined(__STDC__)
680 extern char      **nss_netdb_aliases(const char *, int, char *, int);
681 extern nss_status_t nss_default_key2str(void *, size_t, nss_XbyY_args_t *,
682     const char *, int, size_t *);
683 extern nss_status_t nss_packed_arg_init(void *, size_t, nss_db_root_t *,
684     nss_db_initft_t *, int *,
685     nss_XbyY_args_t *);
686 extern nss_status_t nss_packed_context_init(void *, size_t, nss_db_root_t *,
687     nss_db_initft_t *, nss_getent_t **,
688     nss_XbyY_args_t *);
689 extern void nss_packed_set_status(void *, size_t, nss_status_t,
690     nss_XbyY_args_t *);
691 extern nss_status_t nss_packed_getkey(void *, size_t, char **, int *,
692     nss_XbyY_args_t *);
706 #else
707 extern char      **nss_netdb_aliases();
708 extern int nss_default_key2str();
709 extern nss_status_t nss_packed_arg_init();
710 extern nss_status_t nss_packed_context_init();
711 extern void nss_packed_set_status();
712 extern nss_status_t nss_packed_getkey();

```

```

713 #endif

694 /*
695  * nss_dbop_t values for searches with various keys; values for
696  * destructor/entent/setent/getent are defined in <nss_common.h>
697  */

699 /*
700  * These are part of the "Over the wire" IE app->nscd getXbyY
701  * op for well known getXbyY's. Cannot use NSS_DBOP_X_Y directly
702  * because NSS_DBOP_next_iter is NOT an incrementing counter value
703  * it's a starting offset into an array value.
704  */

706 #define NSS_DBOP_X(x)                ((x)<<16)
707 #define NSS_DBOP_XY(x, y)           ((x)|(y))

709 #define NSS_DBOP_ALIASES             NSS_DBOP_X(1)
710 #define NSS_DBOP_AUTOMOUNT          NSS_DBOP_X(2)
711 #define NSS_DBOP_BOOTPARAMS         NSS_DBOP_X(3)
712 #define NSS_DBOP_ETHERS             NSS_DBOP_X(4)
713 #define NSS_DBOP_GROUP              NSS_DBOP_X(5)
714 #define NSS_DBOP_HOSTS              NSS_DBOP_X(6)
715 #define NSS_DBOP_IPNODES            NSS_DBOP_X(7)
716 #define NSS_DBOP_NETGROUP           NSS_DBOP_X(8)
717 #define NSS_DBOP_NETMASKS           NSS_DBOP_X(9)
718 #define NSS_DBOP_NETWORKS           NSS_DBOP_X(10)
719 #define NSS_DBOP_PASSWD             NSS_DBOP_X(11)
720 #define NSS_DBOP_PRINTERS           NSS_DBOP_X(12)
721 #define NSS_DBOP_PROJECT             NSS_DBOP_X(13)
722 #define NSS_DBOP_PROTOCOLS          NSS_DBOP_X(14)
723 #define NSS_DBOP_PUBLICKEY          NSS_DBOP_X(15)
724 #define NSS_DBOP_RPC                NSS_DBOP_X(16)
725 #define NSS_DBOP_SERVICES            NSS_DBOP_X(17)
726 #define NSS_DBOP_AUDITUSER          NSS_DBOP_X(18)
727 #define NSS_DBOP_AUTHATTR           NSS_DBOP_X(19)
728 #define NSS_DBOP_EXECATTR           NSS_DBOP_X(20)
729 #define NSS_DBOP_PROFATTR           NSS_DBOP_X(21)
730 #define NSS_DBOP_USERATTR           NSS_DBOP_X(22)

732 #define NSS_DBOP_GROUP_BYNAME        (NSS_DBOP_next_iter)
733 #define NSS_DBOP_GROUP_BYGID         (NSS_DBOP_GROUP_BYNAME + 1)
734 #define NSS_DBOP_GROUP_BYMEMBER     (NSS_DBOP_GROUP_BYGID + 1)

736 #define NSS_DBOP_PASSWD_BYNAME       (NSS_DBOP_next_iter)
737 #define NSS_DBOP_PASSWD_BYUID       (NSS_DBOP_PASSWD_BYNAME + 1)

739 /* The "compat" backend requires that PASSWD_BYNAME == SHADOW_BYNAME */
740 /* (it also requires that both use key.name to pass the username). */
741 #define NSS_DBOP_SHADOW_BYNAME       (NSS_DBOP_PASSWD_BYNAME)

743 #define NSS_DBOP_PROJECT_BYNAME      (NSS_DBOP_next_iter)
744 #define NSS_DBOP_PROJECT_BYID       (NSS_DBOP_PROJECT_BYNAME + 1)

746 #define NSS_DBOP_HOSTS_BYNAME        (NSS_DBOP_next_iter)
747 #define NSS_DBOP_HOSTS_BYADDR       (NSS_DBOP_HOSTS_BYNAME + 1)

749 #define NSS_DBOP_IPNODES_BYNAME     (NSS_DBOP_next_iter)
750 #define NSS_DBOP_IPNODES_BYADDR     (NSS_DBOP_IPNODES_BYNAME + 1)

752 /*
753  * NSS_DBOP_NAME_2ADDR
754  * NSS_DBOP_ADDR_2NAME
755  *
756  */

```

: are defines for ipv6 api's

```

758 #define NSS_DBOP_NAME_2ADDR      (NSS_DBOP_next_ipv6_iter)
759 #define NSS_DBOP_ADDR_2NAME      (NSS_DBOP_NAME_2ADDR + 1)

761 #define NSS_DBOP_RPC_BYNAME      (NSS_DBOP_next_iter)
762 #define NSS_DBOP_RPC_BYNUMBER    (NSS_DBOP_RPC_BYNAME + 1)

764 #define NSS_DBOP_NETWORKS_BYNAME (NSS_DBOP_next_iter)
765 #define NSS_DBOP_NETWORKS_BYADDR (NSS_DBOP_NETWORKS_BYNAME + 1)

767 #define NSS_DBOP_SERVICES_BYNAME (NSS_DBOP_next_iter)
768 #define NSS_DBOP_SERVICES_BYPORT (NSS_DBOP_SERVICES_BYNAME + 1)

770 #define NSS_DBOP_PROTOCOLS_BYNAME (NSS_DBOP_next_iter)
771 #define NSS_DBOP_PROTOCOLS_BYNUMBER (NSS_DBOP_PROTOCOLS_BYNAME + 1)

773 #define NSS_DBOP_ETHERS_HOSTTON (NSS_DBOP_next_noiter)
774 #define NSS_DBOP_ETHERS_NTOHOST (NSS_DBOP_ETHERS_HOSTTON + 1)

776 #define NSS_DBOP_BOOTPARAMS_BYNAME (NSS_DBOP_next_noiter)
777 #define NSS_DBOP_NETMASKS_BYNET (NSS_DBOP_next_noiter)

779 #define NSS_DBOP_PRINTERS_BYNAME (NSS_DBOP_next_iter)

781 /*
782  * The "real" backend for netgroup (__multi_innetgr, setnetgrent)
783  */
784 #define NSS_DBOP_NETGROUP_IN      (NSS_DBOP_next_iter)
785 #define NSS_DBOP_NETGROUP_SET    (NSS_DBOP_NETGROUP_IN + 1)

787 /*
788  * The backend for getpublickey and getsecretkey (getkeys)
789  */
790 #define NSS_DBOP_KEYS_BYNAME      (NSS_DBOP_next_iter)

792 /*
793  * The pseudo-backend for netgroup (returned by setnetgrent) doesn't have
794  * any getXXXbyYYY operations, just the usual destr/end/set/get ops,
795  * so needs no definitions here.
796  */

798 #define NSS_DBOP_ATTRDB_BYNAME    (NSS_DBOP_next_iter)

800 #define NSS_DBOP_AUDITUSER_BYNAME NSS_DBOP_ATTRDB_BYNAME
801 #define NSS_DBOP_AUTHATTR_BYNAME NSS_DBOP_ATTRDB_BYNAME
802 #define NSS_DBOP_EXECATTR_BYNAME NSS_DBOP_ATTRDB_BYNAME
803 #define NSS_DBOP_EXECATTR_BYID   (NSS_DBOP_EXECATTR_BYNAME + 1)
804 #define NSS_DBOP_EXECATTR_BYNAMEID (NSS_DBOP_EXECATTR_BYID + 1)
805 #define NSS_DBOP_PROFATTR_BYNAME NSS_DBOP_ATTRDB_BYNAME
806 #define NSS_DBOP_USERATTR_BYNAME NSS_DBOP_ATTRDB_BYNAME

808 #define NSS_DBOP_TSOL_TP_BYNAME   (NSS_DBOP_next_iter)
809 #define NSS_DBOP_TSOL_RH_BYADDR   (NSS_DBOP_next_iter)
810 #define NSS_DBOP_TSOL_ZC_BYNAME   (NSS_DBOP_next_iter)

812 /*
813  * Used all over in the switch code. The best home for it I can think of.
814  * Power-of-two alignments only.
815  */
816 #define ROUND_DOWN(n, align)      (((uintptr_t)n) & ~((align) - 1))
817 #define ROUND_UP(n, align)        ROUND_DOWN(((uintptr_t)n) + (align) - 1, \
818 (align))

820 #ifdef __cplusplus
821 }

```

unchanged portion omitted

```

*****
3369 Sat Aug 2 23:27:10 2014
new/usr/src/head/nss_netdir.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*
29  * nss_netdir.h
30  *
31  * Defines structures that are shared between the OSNET-private
32  * _get_hostserv_inetnetdir_byYY() interfaces and the public
33  * interfaces gethostbyYY()/getservbyYY() and netdir_getbyYY().
34  * Ideally, this header file should never be visible to developers
35  * outside of the OSNET build.
36  */

38 #ifndef _NSS_NETDIR_H
39 #define _NSS_NETDIR_H

39 #pragma ident "%Z%M% %I% %E% SMI"

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 typedef enum {
46     NSS_HOST,
47     NSS_SERV,
48     NETDIR_BY,
49     NETDIR_BY_NOSRV,          /* bypass service lookup */
50     NETDIR_BY6,
51     NETDIR_BY_NOSRV6,       /* bypass service lookup */
52     NSS_HOST6
53 } nss_netdir_op_t;
unchanged_portion_omitted

126 #ifdef __STDC__
127
126 int __classic_netdir_getbyname(struct netconfig *,
127     struct nd_hostserv *, struct nd_addrlist **);

```

```

128 int __classic_netdir_getbyaddr(struct netconfig *,
129     struct nd_hostservlist **, struct netbuf *);
130 int __get_hostserv_inetnetdir_byname(struct netconfig *,
131     struct nss_netdirbyname_in *, union nss_netdirbyname_out *);
132 int __get_hostserv_inetnetdir_byaddr(struct netconfig *,
133     struct nss_netdirbyaddr_in *, union nss_netdirbyaddr_out *);
134 int __inet_netdir_options(struct netconfig *,
135     int option, int fd, char *par);
136 struct netbuf *__inet_uaddr2taddr(struct netconfig *, char *);
137 char *__inet_taddr2uaddr(struct netconfig *, struct netbuf *);

141 #else
143 int __classic_netdir_getbyname();
144 int __classic_netdir_getbyaddr();
145 int __get_hostserv_inetnetdir_byname();
146 int __get_hostserv_inetnetdir_byaddr();
147 int __inet_netdir_options();
148 struct netbuf *__inet_uaddr2taddr();
149 char *__inet_taddr2uaddr();

151 #endif /* __STDC__ */

139 #ifdef __cplusplus
140 }
unchanged_portion_omitted

```

```

*****
4026 Sat Aug 2 23:27:10 2014
new/usr/src/head/nsswitch.h
remove support for non-ANSI compilation
*****
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26 */

28 /*
29 * nsswitch.h
30 *
31 * Low-level interface to the name-service switch. The interface defined
32 * in <nss_common.h> should be used in preference to this.
33 *
34 * This is a Project Private interface. It may change in future releases.
35 */

37 #ifndef _NSSWITCH_H
38 #define _NSSWITCH_H

38 #pragma ident "%Z%M% %I% %E% SMI"

40 #ifdef __cplusplus
41 extern "C" {
42 #endif

44 #ifndef __NSW_CONFIG_FILE
45 #define __NSW_CONFIG_FILE "/etc/nsswitch.conf"
46 #endif
47 #define __NSW_DEFAULT_FILE "/etc/default/nss"

49 #define __NSW_HOSTS_DB "hosts"
50 #define __NSW_PASSWD_DB "passwd"
51 #define __NSW_GROUP_DB "group"
52 #define __NSW_NETGROUP_DB "netgroup"
53 #define __NSW_NETWORKS_DB "networks"
54 #define __NSW_PROTOCOLS_DB "protocols"
55 #define __NSW_RPC_DB "rpc"
56 #define __NSW_SERVICES_DB "services"
57 #define __NSW_ETHERS_DB "ethers"
58 #define __NSW_BOOTPARAMS_DB "bootparams"
59 #define __NSW_NETMASKS_DB "netmasks"

```

```

60 #define __NSW_BROADCASTADDRS_DB "broadcastaddrs"
61 #define __NSW_MAIL_ALIASES_DB "aliases"
62 #define __NSW_AUDITUSER_DB "audit_user"
63 #define __NSW_AUTHATTR_DB "auth_attr"
64 #define __NSW_EXCATTR_DB "exec_attr"
65 #define __NSW_PROFATTR_DB "prof_attr"
66 #define __NSW_USERATTR_DB "user_attr"
67 #define __NSW_PROJECT_DB "project"

69 #define __NSW_STD_ERRS 4 /* number of reserved errors that follow */

71 #define __NSW_SUCCESS 0 /* found the required data */
72 #define __NSW_NOTFOUND 1 /* the naming service returned lookup failure */
73 #define __NSW_UNAVAIL 2 /* could not call the naming service */
74 #define __NSW_TRYAGAIN 3 /* bind error to suggest a retry */

76 typedef unsigned char action_t;
77 #define __NSW_CONTINUE 0 /* the action is to continue to next service */
78 #define __NSW_RETURN 1 /* the action is to return to the user */

80 #define __NSW_STR_RETURN "return"
81 #define __NSW_STR_CONTINUE "continue"
82 #define __NSW_STR_SUCCESS "success"
83 #define __NSW_STR_NOTFOUND "notfound"
84 #define __NSW_STR_UNAVAIL "unavail"
85 #define __NSW_STR_TRYAGAIN "tryagain"

87 /* prefix for all switch shared objects */
88 #define __NSW_LIB "nsw"

90 enum __nsw_parse_err {
91     __NSW_CONF_PARSE_SUCCESS = 0, /* parser found the required policy */
92     __NSW_CONF_PARSE_NOFILE = 1, /* the policy files does not exist */
93     __NSW_CONF_PARSE_NOPOLICY = 2, /* the required policy is not set */
94     /* in the file */
95     __NSW_CONF_PARSE_SYSERR = 3 /* system error in the parser */
96 };

    unchanged portion omitted

119 #define __NSW_ACTION(lkp, err) \
120     ((lkp)->next == NULL ? \
121      __NSW_RETURN \
122      : \
123      ((err) >= 0 && (err) < __NSW_STD_ERRS ? \
124       (lkp)->actions[err] \
125       : \
126       __nsw_extended_action(lkp, err))

128 #ifndef __STDC__

128 struct __nsw_switchconfig * __nsw_getconfig
129     (const char *, enum __nsw_parse_err *);
130 int __nsw_freeconfig(struct __nsw_switchconfig *);
131 action_t __nsw_extended_action(struct __nsw_lookup *, int);

135 #else

137 struct __nsw_switchconfig * __nsw_getconfig();
138 int __nsw_freeconfig();
139 action_t __nsw_extended_action();

141 #endif /* __STDC__ */

133 #ifdef __cplusplus
134 }

    unchanged portion omitted

```



new/usr/src/head/pcsample.h

1

\*\*\*\*\*

1234 Sat Aug 2 23:27:10 2014

new/usr/src/head/pcsample.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
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27 */

29 #ifndef _PCSAMPLE_H
30 #define _PCSAMPLE_H

31 #pragma ident "%Z%M% %I% %E% SMI"

32 #include <sys/types.h>

33
34 #ifdef __cplusplus
35 extern "C" {
36 #endif

37
38 /*
39  * PC sampling profiling
40  */
41 #ifdef __STDC__
42 long pcsample(uintptr_t [], long);
43 #else
44 long pcsample();
45 #endif /* __STDC__ */

46
47 #ifdef __cplusplus
48 }
49
50 _____
51 unchanged_portion_omitted_
52 _____
```

new/usr/src/head/pfmt.h

1

```
*****
1969 Sat Aug 2 23:27:11 2014
new/usr/src/head/pfmt.h
remove support for non-ANSI compilation
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24 */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

28 #ifndef _PFMT_H
29 #define _PFMT_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"

31 #include <stdio.h>
32 #ifndef va_args
33 #include <stdarg.h>
34 #endif

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 #define MM_STD          0
41 #define MM_NOSTD       0x100
42 #define MM_GET         0
43 #define MM_NOGET      0x200

45 #define MM_ACTION      0x400

47 #define MM_NOCONSOLE  0
48 #define MM_CONSOLE    0x800

50 /* Classification */
51 #define MM_NULLMC     0
52 #define MM_HARD       0x1000
53 #define MM_SOFT       0x2000
54 #define MM_FIRM       0x4000
55 #define MM_APPL       0x8000
56 #define MM_UTIL       0x10000
57 #define MM OPSYS     0x20000
```

new/usr/src/head/pfmt.h

2

```
59 /* Most commonly used combinations */
60 #define MM_SVCMD      MM_UTIL|MM_SOFT

62 #define MM_ERROR      0
63 #define MM_HALT      1
64 #define MM_WARNING    2
65 #define MM_INFO      3

67 #ifdef __STDC__
68 int pfmt(FILE *, long, const char *, ...);
69 int lfmt(FILE *, long, const char *, ...);
70 int vpfmt(FILE *, long, const char *, va_list);
71 int vlfmt(FILE *, long, const char *, va_list);
72 const char *setcat(const char *);
73 int setlabel(const char *);
74 int addsev(int, const char *);
75 #else
76 int pfmt();
77 int lfmt();
78 int vpfmt();
79 int vlfmt();
80 char *setcat();
81 int setlabel();
82 int addsev();
83 #endif

75 #define DB_NAME_LEN    15
76 #define MAXLABEL      25

78 #ifdef __cplusplus
79 }

```

unchanged portion omitted

new/usr/src/head/pkginfo.h

1

```
*****
1513 Sat Aug  2 23:27:11 2014
new/usr/src/head/pkginfo.h
remove support for non-ANSI compilation
*****
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22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */

28 #ifndef _PKGINFO_H
29 #define _PKGINFO_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.5.1.2 */

31 #ifdef __cplusplus
32 extern "C" {
33 #endif

35 #define PI_INSTALLED      0
36 #define PI_PARTIAL      1
37 #define PI_PRESVR4      2
38 #define PI_UNKNOWN      3
39 #define PI_SPOOLED      4

41 struct pkginfo {
42     char      *pkginst;
43     char      *name;
44     char      *arch;
45     char      *version;
46     char      *vendor;
47     char      *basedir;
48     char      *catg;
49     char      status;
50 };

52 extern char      *pkgdir;

54 #ifdef __STDC__
54 extern char      *pkgparam(char *, char *);
55 extern int      pkginfo(struct pkginfo *, char *, ...),
56                 pkgnmchk(char *, char *, int);
58 #else
```

new/usr/src/head/pkginfo.h

2

```
59 extern char      *pkgparam();
60 extern int      pkginfo(),
61                 pkgnmchk();
62 #endif /* __STDC__ */

58 #ifdef __cplusplus
59 }
unchanged_portion_omitted
```

new/usr/src/head/poll.h

1

```
*****
1624 Sat Aug  2 23:27:11 2014
new/usr/src/head/poll.h
remove support for non-ANSI compilation
*****
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24 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25 */
27 /*      Copyright (c) 1988 AT&T */
28 /*      All Rights Reserved      */
30 #ifndef _POLL_H
31 #define _POLL_H
33 /*
34 * Poll system call interface definitions.
35 */
37 #include <sys/feature_tests.h>
38 #include <sys/poll.h>
39 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
40 #include <time.h>
41 #include <signal.h>
42 #endif /* defined(__EXTENSIONS__) ... */
44 #ifdef __cplusplus
45 extern "C" {
46 #endif
48 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
49 #if defined(__STDC__)
50 extern int ppoll(struct pollfd *RESTRICT_KYWD, nfds_t,
51     const struct timespec *RESTRICT_KYWD, const sigset_t *RESTRICT_KYWD);
54 #else /* __STDC__ */
56 extern int ppoll();
58 #endif /* __STDC__ */
53 #endif /* defined(__EXTENSIONS__) ... */
```

new/usr/src/head/poll.h

2

```
55 #ifdef __cplusplus
56 }
_____unchanged_portion_omitted_
```

new/usr/src/head/priv.h

1

```
*****
2926 Sat Aug 2 23:27:11 2014
new/usr/src/head/priv.h
remove support for non-ANSI compilation
*****
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26 */

28 #ifndef _PRIV_H
29 #define _PRIV_H

31 #include <sys/priv.h>

33 #ifdef __cplusplus
34 extern "C" {
35 #endif

37 #define PRIV_STR_PORT          0x00          /* portable output */
38 #define PRIV_STR_LIT          0x01          /* literal output */
39 #define PRIV_STR_SHORT        0x02          /* shortest output */

41 #define PRIV_ALLSETS          ((priv_ptype_t)0) /* for priv_set() */

43 /*
44  * library functions prototype.
45  */
44 #if defined(__STDC__)

47 extern int setppriv(priv_op_t, priv_ptype_t, const priv_set_t *);
48 extern int getppriv(priv_ptype_t, priv_set_t *);
49 extern int setpflags(uint_t, uint_t);
50 extern uint_t getpflags(uint_t);
51 extern const priv_impl_info_t *getprivimplinfo(void);

53 extern int priv_set(priv_op_t, priv_ptype_t, ...);
54 extern boolean_t priv_ineffect(const char *);
55 extern priv_set_t *priv_str_to_set(const char *, const char *, const char **);
56 extern char *priv_set_to_str(const priv_set_t *, char, int);

58 extern int priv_getbyname(const char *);
59 extern const char *priv_getbynum(int);
60 extern int priv_getsetbyname(const char *);
```

new/usr/src/head/priv.h

2

```
61 extern const char *priv_getsetbynum(int);
62 extern char *priv_gettext(const char *);

64 extern priv_set_t *priv_allocset(void);
65 extern void priv_freeset(priv_set_t *);

67 extern void priv_emptyset(priv_set_t *);
68 extern void priv_basicset(priv_set_t *);
69 extern void priv_fillset(priv_set_t *);
70 extern boolean_t priv_isemptyset(const priv_set_t *);
71 extern boolean_t priv_isfullset(const priv_set_t *);
72 extern boolean_t priv_isequalset(const priv_set_t *, const priv_set_t *);
73 extern boolean_t priv_issubset(const priv_set_t *, const priv_set_t *);
74 extern void priv_intersect(const priv_set_t *, priv_set_t *);
75 extern void priv_union(const priv_set_t *, priv_set_t *);
76 extern void priv_inverse(priv_set_t *);
77 extern int priv_addset(priv_set_t *, const char *);
78 extern void priv_copyset(const priv_set_t *, priv_set_t *);
79 extern int priv_delset(priv_set_t *, const char *);
80 extern boolean_t priv_ismember(const priv_set_t *, const char *);

81 #else /* Non ANSI */

83 extern int setppriv(/* priv_op_t, priv_ptype_t, const priv_set_t * */);
84 extern int getppriv(/* priv_ptype_t, priv_set_t * */);
85 extern int setpflags(/* uint_t, uint_t */);
86 extern uint_t getpflags(/* uint_t */);
87 extern priv_impl_info_t *getprivimplinfo(/* void */);

89 extern int priv_set(/* priv_op_t, priv_ptype_t, ... */);
90 extern boolean_t priv_ineffect(/* const char * */);
91 extern priv_set_t *priv_str_to_set(/*
92     const char *, const char *, const char ** */);
93 extern char *priv_set_to_str(/* const priv_set_t *, char, int */);

95 extern int priv_getbyname(/* const char * */);
96 extern char *priv_getbynum(/* int */);
97 extern int priv_getsetbyname(/* const char * */);
98 extern char *priv_getsetbynum(/* int */);
99 extern char *priv_gettext(/* const char * */);

101 extern priv_set_t *priv_allocset(/* void */);
102 extern void priv_freeset(/* priv_set_t * */);

104 extern void priv_emptyset(/* priv_set_t * */);
105 extern void priv_basicset(/* priv_set_t * */);
106 extern void priv_fillset(/* priv_set_t * */);
107 extern boolean_t priv_isemptyset(/* const priv_set_t * */);
108 extern boolean_t priv_isfullset(/* const priv_set_t * */);
109 extern boolean_t priv_isequalset(/* const priv_set_t *, const priv_set_t * */);
110 extern boolean_t priv_issubset(/* const priv_set_t *, const priv_set_t * */);
111 extern void priv_intersect(/* const priv_set_t *, priv_set_t * */);
112 extern void priv_union(/* const priv_set_t *, priv_set_t * */);
113 extern void priv_inverse(/* priv_set_t * */);
114 extern int priv_addset(/* priv_set_t *, const char * */);
115 extern void priv_copyset(/* const priv_set_t *, priv_set_t * */);
116 extern int priv_delset(/* priv_set_t *, const char * */);
117 extern boolean_t priv_ismember(/* const priv_set_t *, const char * */);

119 #endif /* __STDC__ */

82 #ifdef __cplusplus
83 }
84 #endif

86 #endif /* _PRIV_H */
```

```

*****
1687 Sat Aug 2 23:27:11 2014
new/usr/src/head/prof.h
remove support for non-ANSI compilation
*****
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23 /*      All Rights Reserved */

26 /*
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28 *
29 * Copyright (c) 1996-1999 by Sun Microsystems, Inc.
30 * All rights reserved.
31 */

33 #ifndef _PROF_H
34 #define _PROF_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.10.1.4 */

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 #ifndef MARK
41 #define MARK(K) {}
42 #else
43 #undef MARK

45 #if defined(__STDC__)

45 #if defined(__i386)
46 #define MARK(K) {\
47     asm(" .data"); \
48     asm(" .align 4"); \
49     asm(" ."#K".""); \
50     asm(" .long 0"); \
51     asm(" .text"); \
52     asm("M."#K:""); \
53     asm(" movl  $."#K"., %edx"); \
54     asm(" call _mcount"); \
55 }
56 #endif

```

```

58 #if defined(__sparc)
59 #define MARK(K) {\
60     asm(" .reserve      ."#K"., 4, \".bss\", 4"); \
61     asm("M."#K:""); \
62     asm(" sethi  %hi(.#K".), %o0"); \
63     asm(" call  _mcount"); \
64     asm(" or    %o0, %lo(.#K".), %o0"); \
65 }
66 #endif

70 #else /* __STDC__ */

72 #if defined(__i386)
73 #define MARK(K) {\
74     asm(" .data"); \
75     asm(" .align 4"); \
76     asm(" .K.:"); \
77     asm(" .long 0"); \
78     asm(" .text"); \
79     asm("M.K:""); \
80     asm(" movl  $.K., %edx"); \
81     asm(" call _mcount"); \
82 }
83 #endif

85 #if defined(__sparc)
86 #define MARK(K) {\
87     asm(" .reserve      .K., 4, \".bss\", 4"); \
88     asm("M.K:""); \
89     asm(" sethi  %hi(.K.), %o0"); \
90     asm(" call  _mcount"); \
91     asm(" or    %o0, %lo(.K.), %o0"); \
92 }
93 #endif

95 #endif /* __STDC__ */

68 #endif /* MARK */

70 #ifdef __cplusplus
71 }

```

unchanged portion omitted

new/usr/src/head/prof\_attr.h

1

```
*****
2784 Sat Aug 2 23:27:11 2014
new/usr/src/head/prof_attr.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 * Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
24 */

26 #ifndef _PROF_ATTR_H
27 #define _PROF_ATTR_H

29 #ifdef __cplusplus
30 extern "C" {
31 #endif

34 #include <sys/types.h>
35 #include <secdb.h>

38 #define PROFATTR_FILENAME      "/etc/security/prof_attr"
39 #define PROFATTR_DB_NAME       "prof_attr.org_dir"
40 #define PROFATTR_DB_NCOL      5 /* total columns */
41 #define PROFATTR_DB_NKEYCOL    1 /* total searchable columns */
42 #define PROFATTR_DB_TBLT      "prof_attr_tbl"
43 #define PROFATTR_NAME_DEFAULT_KW "nobody"

45 #define PROFATTR_COL0_KW       "name"
46 #define PROFATTR_COL1_KW       "res1"
47 #define PROFATTR_COL2_KW       "res2"
48 #define PROFATTR_COL3_KW       "desc"
49 #define PROFATTR_COL4_KW       "attr"

51 #define PROFILE_STOP           "Stop"

53 #define DEF_PROF               "PROFS_GRANTED="
54 #define DEF_CONSUSER          "CONSOLE_USER="

56 #define MAXPROFS              4096

58 /*
59 * indices of searchable columns
60 */
61 #define PROFATTR_KEYCOL0      0 /* name */
```

new/usr/src/head/prof\_attr.h

2

```
64 /*
65  * Key words used in the prof_attr database
66 */
67 #define PROFATTR_AUTHS_KW      "auths"
68 #define PROFATTR_PROFS_KW      "profiles"
69 #define PROFATTR_PRIVS_KW      "privs"

72 /*
73  * Nsswitch representation of profile attributes.
74 */

76 typedef struct profstr_s {
77     char *name; /* profORIZATION name */
78     char *res1; /* RESERVED */
79     char *res2; /* RESERVED */
80     char *desc; /* description */
81     char *attr; /* string of key-value pair attributes */
82 } profstr_t;
_____ unchanged_portion_omitted_____

91 #ifdef __STDC__
92 extern profattr_t *getprofnam(const char *);
93 extern profattr_t *getprofattr(void);
94 extern void getproflist(const char *, char **, int *);
95 extern void setprofattr(void);
96 extern void endprofattr(void);
97 extern void free_profattr(profattr_t *);
98 extern void free_proflist(char **, int);

100 #else /* not __STDC__ */

102 extern profattr_t *getprofnam();
103 extern profattr_t *getprofattr();
104 extern void getproflist();
105 extern int setprofattr();
106 extern int endprofattr();
107 extern void free_profattr();
108 extern void free_proflist();

110 #endif

100 #ifdef __cplusplus
101 }
_____ unchanged_portion_omitted_____
```

```

*****
13659 Sat Aug  2 23:27:11 2014
new/usr/src/head/pthread.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _PTHREAD_H
30 #define _PTHREAD_H

32 #include <sys/feature_tests.h>

34 #ifndef _ASM
35 #include <sys/types.h>
36 #include <time.h>
37 #include <sched.h>
38 #endif /* _ASM */

40 #ifdef __cplusplus
41 extern "C" {
42 #endif

44 /*
45  * Thread related attribute values defined as in thread.h.
46  * These are defined as bit pattern in thread.h.
47  * Any change here should be reflected in thread.h.
48  */
49 /* detach */
50 #define PTHREAD_CREATE_DETACHED      0x40    /* = THR_DETACHED */
51 #define PTHREAD_CREATE_JOINABLE      0
52 /* scope */
53 #define PTHREAD_SCOPE_SYSTEM          0x01    /* = THR_BOUND */
54 #define PTHREAD_SCOPE_PROCESS        0

56 /*
57  * Other attributes which are not defined in thread.h
58  */
59 /* inherit */
60 #define PTHREAD_INHERIT_SCHED        1
61 #define PTHREAD_EXPLICIT_SCHED        0

```

```

63 /*
64  * Value of process-shared attribute
65  * These are defined as values defined in sys/synch.h
66  * Any change here should be reflected in sys/synch.h.
67  */
68 #define PTHREAD_PROCESS_SHARED        1        /* = USYNC_PROCESS */
69 #define PTHREAD_PROCESS_PRIVATE      0        /* = USYNC_THREAD */

71 #define _DEFAULT_TYPE                 PTHREAD_PROCESS_PRIVATE
72 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
73 #define DEFAULT_TYPE                  _DEFAULT_TYPE
74 #endif

76 /*
77  * mutex types
78  * keep these in synch which sys/synch.h lock flags
79  */
80 #define PTHREAD_MUTEX_NORMAL          0x0
81 #define PTHREAD_MUTEX_ERRORCHECK     0x2
82 #define PTHREAD_MUTEX_RECURSIVE     0x4
83 #define PTHREAD_MUTEX_DEFAULT        PTHREAD_MUTEX_NORMAL

85 /*
86  * Mutex protocol values. Keep these in synch with sys/synch.h lock types.
87  */
88 #define PTHREAD_PRIO_NONE             0x0
89 #define PTHREAD_PRIO_INHERIT         0x10
90 #define PTHREAD_PRIO_PROTECT         0x20

92 /*
93  * Mutex robust attribute values.
94  * Keep these in synch with sys/synch.h lock types.
95  */
96 #define PTHREAD_MUTEX_STALLED         0x0
97 #define PTHREAD_MUTEX_ROBUST         0x40
98 /*
99  * Historical solaris-specific names,
100 * from before pthread_mutexattr_getrobust() became standardized
101 */
102 #define PTHREAD_MUTEX_STALL_NP        PTHREAD_MUTEX_STALLED
103 #define PTHREAD_MUTEX_ROBUST_NP      PTHREAD_MUTEX_ROBUST

105 /*
106  * macros - default initializers defined as in synch.h
107  * Any change here should be reflected in synch.h.
108  */
109 * NOTE:
110 * Make sure that any change in the macros is consistent with the definition
111 * of the corresponding types in sys/types.h (e.g. PTHREAD_MUTEX_INITIALIZER
112 * should be consistent with the definition for pthread_mutex_t).
113 */
114 #define PTHREAD_MUTEX_INITIALIZER     /* = DEFAULTMUTEX */ \
115     {{0, 0, 0, _DEFAULT_TYPE, _MUTEX_MAGIC}, {{{0}}}, 0}

117 #define PTHREAD_COND_INITIALIZER     /* = DEFAULTCV */ \
118     {{{0, 0, 0, 0}, _DEFAULT_TYPE, _COND_MAGIC}, 0}

120 #define PTHREAD_RWLOCK_INITIALIZER   /* = DEFAULTRWLOCK */ \
121     {0, _DEFAULT_TYPE, _RWL_MAGIC, PTHREAD_MUTEX_INITIALIZER, \
122     PTHREAD_COND_INITIALIZER, PTHREAD_COND_INITIALIZER}

124 /* cancellation type and state */
125 #define PTHREAD_CANCEL_ENABLE         0x00
126 #define PTHREAD_CANCEL_DISABLE       0x01
127 #define PTHREAD_CANCEL_DEFERRED      0x00

```



```

128 #define PTHREAD_CANCEL_ASYNCHRONOUS    0x02
129 #define PTHREAD_CANCELLED              (void *)-19

131 /* pthread_once related values */
132 #define PTHREAD_ONCE_NOTDONE          0
133 #define PTHREAD_ONCE_DONE             1
134 #define PTHREAD_ONCE_INIT              { {0, 0, 0, PTHREAD_ONCE_NOTDONE} }

136 /*
137 * The key to be created by pthread_key_create_once_np()
138 * must be statically initialized with PTHREAD_ONCE_KEY_NP.
139 * This must be the same as THR_ONCE_KEY in <thread.h>
140 */
141 #define PTHREAD_ONCE_KEY_NP            (pthread_key_t)(-1)

143 /* barriers */
144 #define PTHREAD_BARRIER_SERIAL_THREAD -2

146 #ifndef _ASM

148 /*
149 * cancellation cleanup structure
150 */
151 typedef struct _cleanup {
152     uintptr_t    pthread_cleanup_pad[4];
153 } _cleanup_t;

153 #ifdef __STDC__

155 void    __pthread_cleanup_push(void (*)(void *), void *, caddr_t, _cleanup_t *);
156 void    __pthread_cleanup_pop(int, _cleanup_t *);
157 caddr_t __getfp(void);

159 #else /* __STDC__ */

161 void    __pthread_cleanup_push();
162 void    __pthread_cleanup_pop();
163 caddr_t __getfp();

165 #endif /* __STDC__ */

159 #if __cplusplus
160 extern "C" {
161 #endif

163 typedef void (*_Voidfp)(void*); /* pointer to extern "C" function */

165 #if __cplusplus
166 } /* extern "C" */
167 #endif
168 #define unchanged_portion_omitted

186 #ifdef __STDC__

178 /*
179 * function prototypes - thread related calls
180 */

182 /*
183 * pthread_atfork() is also declared in <unistd.h> as per SUSv2. The
184 * declarations are identical. A change to either one may also require
185 * appropriate namespace updates in order to avoid redeclaration
186 * warnings in the case where both prototypes are exposed via inclusion
187 * of both <pthread.h> and <unistd.h>.
188 */
189 extern int pthread_atfork(void (*) (void), void (*) (void), void (*) (void));
190 extern int pthread_attr_init(pthread_attr_t *);

```

```

191 extern int pthread_attr_destroy(pthread_attr_t *);
192 extern int pthread_attr_setstack(pthread_attr_t *, void *, size_t);
193 extern int pthread_attr_getstack(const pthread_attr_t *_RESTRICT_KYWD,
194     void **_RESTRICT_KYWD, size_t *_RESTRICT_KYWD);
195 extern int pthread_attr_setstacksize(pthread_attr_t *, size_t);
196 extern int pthread_attr_getstacksize(const pthread_attr_t *_RESTRICT_KYWD,
197     size_t *_RESTRICT_KYWD);
198 extern int pthread_attr_setstackaddr(pthread_attr_t *, void *);
199 extern int pthread_attr_getstackaddr(const pthread_attr_t *_RESTRICT_KYWD,
200     void **_RESTRICT_KYWD);
201 extern int pthread_attr_setdetachstate(pthread_attr_t *, int);
202 extern int pthread_attr_getdetachstate(const pthread_attr_t *, int *);
203 extern int pthread_attr_setscope(pthread_attr_t *, int);
204 extern int pthread_attr_getscope(const pthread_attr_t *_RESTRICT_KYWD,
205     int *_RESTRICT_KYWD);
206 extern int pthread_attr_setinheritsched(pthread_attr_t *, int);
207 extern int pthread_attr_getinheritsched(const pthread_attr_t *_RESTRICT_KYWD,
208     int *_RESTRICT_KYWD);
209 extern int pthread_attr_setschedpolicy(pthread_attr_t *, int);
210 extern int pthread_attr_getschedpolicy(const pthread_attr_t *_RESTRICT_KYWD,
211     int *_RESTRICT_KYWD);
212 extern int pthread_attr_setschedparam(pthread_attr_t *_RESTRICT_KYWD,
213     const struct sched_param *_RESTRICT_KYWD);
214 extern int pthread_attr_getschedparam(const pthread_attr_t *_RESTRICT_KYWD,
215     struct sched_param *_RESTRICT_KYWD);
216 extern int pthread_create(pthread_t *_RESTRICT_KYWD,
217     const pthread_attr_t *_RESTRICT_KYWD, void * (*)(void *),
218     void *_RESTRICT_KYWD);
219 extern int pthread_once(pthread_once_t *, void (*)(void));
220 extern int pthread_join(pthread_t, void **);
221 extern int pthread_detach(pthread_t);
222 extern void pthread_exit(void *) _NORETURN;
223 extern int pthread_cancel(pthread_t);
224 extern int pthread_setschedparam(pthread_t, int, const struct sched_param *);
225 extern int pthread_getschedparam(pthread_t, int *_RESTRICT_KYWD,
226     struct sched_param *_RESTRICT_KYWD);
227 extern int pthread_setschedprio(pthread_t, int);
228 extern int pthread_setcancelstate(int, int *);
229 extern int pthread_setcanceltype(int, int *);
230 extern void pthread_testcancel(void);
231 extern int pthread_equal(pthread_t, pthread_t);
232 extern int pthread_key_create(pthread_key_t *, void (*)(void *));
233 extern int pthread_key_create_once_np(pthread_key_t *, void (*)(void *));
234 extern int pthread_key_delete(pthread_key_t);
235 extern int pthread_key_specific(pthread_key_t, const void *);
236 extern void *pthread_getspecific(pthread_key_t);
237 extern pthread_t pthread_self(void);

239 /*
240 * function prototypes - synchronization related calls
241 */
242 extern int pthread_mutexattr_init(pthread_mutexattr_t *);
243 extern int pthread_mutexattr_destroy(pthread_mutexattr_t *);
244 extern int pthread_mutexattr_setpshared(pthread_mutexattr_t *, int);
245 extern int pthread_mutexattr_getpshared(
246     const pthread_mutexattr_t *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
247 extern int pthread_mutexattr_setprotocol(pthread_mutexattr_t *, int);
248 extern int pthread_mutexattr_getprotocol(
249     const pthread_mutexattr_t *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
250 extern int pthread_mutexattr_setprioceiling(pthread_mutexattr_t *, int);
251 extern int pthread_mutexattr_getprioceiling(
252     const pthread_mutexattr_t *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
253 extern int pthread_mutexattr_setrobust(pthread_mutexattr_t *, int);
254 extern int pthread_mutexattr_getrobust(
255     const pthread_mutexattr_t *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
256 extern int pthread_mutex_init(pthread_mutex_t *_RESTRICT_KYWD,

```

```

257     const pthread_mutexattr_t *_RESTRUCT_KYWD);
258 extern int pthread_mutex_consistent(pthread_mutex_t *);
259 extern int pthread_mutex_destroy(pthread_mutex_t *);
260 extern int pthread_mutex_lock(pthread_mutex_t *);
261 extern int pthread_mutex_timedlock(pthread_mutex_t *_RESTRUCT_KYWD,
262     const struct timespec *_RESTRUCT_KYWD);
263 extern int pthread_mutex_reltimedlock_np(pthread_mutex_t *_RESTRUCT_KYWD,
264     const struct timespec *_RESTRUCT_KYWD);
265 extern int pthread_mutex_unlock(pthread_mutex_t *);
266 extern int pthread_mutex_trylock(pthread_mutex_t *);
267 extern int pthread_mutex_setprioceiling(pthread_mutex_t *_RESTRUCT_KYWD,
268     int, int *_RESTRUCT_KYWD);
269 extern int pthread_mutex_getprioceiling(const pthread_mutex_t *_RESTRUCT_KYWD,
270     int *_RESTRUCT_KYWD);
271 extern int pthread_condattr_init(pthread_condattr_t *);
272 extern int pthread_condattr_destroy(pthread_condattr_t *);
273 extern int pthread_condattr_setclock(pthread_condattr_t *, clockid_t);
274 extern int pthread_condattr_getclock(const pthread_condattr_t *_RESTRUCT_KYWD,
275     clockid_t *_RESTRUCT_KYWD);
276 extern int pthread_condattr_setpshared(pthread_condattr_t *, int);
277 extern int pthread_condattr_getpshared(const pthread_condattr_t *_RESTRUCT_KYWD,
278     int *_RESTRUCT_KYWD);
279 extern int pthread_cond_init(pthread_cond_t *_RESTRUCT_KYWD,
280     const pthread_condattr_t *_RESTRUCT_KYWD);
281 extern int pthread_cond_destroy(pthread_cond_t *);
282 extern int pthread_cond_broadcast(pthread_cond_t *);
283 extern int pthread_cond_signal(pthread_cond_t *);
284 extern int pthread_cond_wait(pthread_cond_t *_RESTRUCT_KYWD,
285     pthread_mutex_t *_RESTRUCT_KYWD);
286 extern int pthread_cond_timedwait(pthread_cond_t *_RESTRUCT_KYWD,
287     pthread_mutex_t *_RESTRUCT_KYWD, const struct timespec *_RESTRUCT_KYWD);
288 extern int pthread_cond_reltimedwait_np(pthread_cond_t *_RESTRUCT_KYWD,
289     pthread_mutex_t *_RESTRUCT_KYWD, const struct timespec *_RESTRUCT_KYWD);
290 extern int pthread_attr_getguardsize(const pthread_attr_t *_RESTRUCT_KYWD,
291     size_t *_RESTRUCT_KYWD);
292 extern int pthread_attr_setguardsize(pthread_attr_t *, size_t);
293 extern int pthread_getconcurrency(void);
294 extern int pthread_setconcurrency(int);
295 extern int pthread_mutexattr_settype(pthread_mutexattr_t *, int);
296 extern int pthread_mutexattr_gettype(const pthread_mutexattr_t *_RESTRUCT_KYWD,
297     int *_RESTRUCT_KYWD);
298 extern int pthread_rwlock_init(pthread_rwlock_t *_RESTRUCT_KYWD,
299     const pthread_rwlockattr_t *_RESTRUCT_KYWD);
300 extern int pthread_rwlock_destroy(pthread_rwlock_t *);
301 extern int pthread_rwlock_rdlock(pthread_rwlock_t *);
302 extern int pthread_rwlock_timedrdlock(pthread_rwlock_t *_RESTRUCT_KYWD,
303     const struct timespec *_RESTRUCT_KYWD);
304 extern int pthread_rwlock_reltimedrdlock_np(pthread_rwlock_t *_RESTRUCT_KYWD,
305     const struct timespec *_RESTRUCT_KYWD);
306 extern int pthread_rwlock_tryrdlock(pthread_rwlock_t *);
307 extern int pthread_rwlock_wrlock(pthread_rwlock_t *);
308 extern int pthread_rwlock_timedwrlock(pthread_rwlock_t *_RESTRUCT_KYWD,
309     const struct timespec *_RESTRUCT_KYWD);
310 extern int pthread_rwlock_reltimedwrlock_np(pthread_rwlock_t *_RESTRUCT_KYWD,
311     const struct timespec *_RESTRUCT_KYWD);
312 extern int pthread_rwlock_trywrlock(pthread_rwlock_t *);
313 extern int pthread_rwlock_unlock(pthread_rwlock_t *);
314 extern int pthread_rwlockattr_init(pthread_rwlockattr_t *);
315 extern int pthread_rwlockattr_destroy(pthread_rwlockattr_t *);
316 extern int pthread_rwlockattr_getpshared(
317     const pthread_rwlockattr_t *_RESTRUCT_KYWD, int *_RESTRUCT_KYWD);
318 extern int pthread_rwlockattr_setpshared(pthread_rwlockattr_t *, int);
319 extern int pthread_spin_init(pthread_spinlock_t *, int);
320 extern int pthread_spin_destroy(pthread_spinlock_t *);
321 extern int pthread_spin_lock(pthread_spinlock_t *);
322 extern int pthread_spin_trylock(pthread_spinlock_t *);

```

```

323 extern int pthread_spin_unlock(pthread_spinlock_t *);
324 extern int pthread_barrierattr_init(pthread_barrierattr_t *);
325 extern int pthread_barrierattr_destroy(pthread_barrierattr_t *);
326 extern int pthread_barrierattr_setpshared(pthread_barrierattr_t *, int);
327 extern int pthread_barrierattr_getpshared(
328     const pthread_barrierattr_t *_RESTRUCT_KYWD, int *_RESTRUCT_KYWD);
329 extern int pthread_barrier_init(pthread_barrier_t *_RESTRUCT_KYWD,
330     const pthread_barrierattr_t *_RESTRUCT_KYWD, uint_t);
331 extern int pthread_barrier_destroy(pthread_barrier_t *);
332 extern int pthread_barrier_wait(pthread_barrier_t *);

334 /* Historical names -- present only for binary compatibility */
335 extern int pthread_mutex_consistent_np(pthread_mutex_t *);
336 extern int pthread_mutexattr_setrobust_np(pthread_mutexattr_t *, int);
337 extern int pthread_mutexattr_getrobust_np(
338     const pthread_mutexattr_t *_RESTRUCT_KYWD, int *_RESTRUCT_KYWD);

350 #else /* __STDC__ */

352 /*
353  * function prototypes - thread related calls
354  */
355 extern int pthread_atfork();
356 extern int pthread_attr_init();
357 extern int pthread_attr_destroy();
358 extern int pthread_attr_setstack();
359 extern int pthread_attr_getstack();
360 extern int pthread_attr_setstacksize();
361 extern int pthread_attr_getstacksize();
362 extern int pthread_attr_setstackaddr();
363 extern int pthread_attr_getstackaddr();
364 extern int pthread_attr_setdetachstate();
365 extern int pthread_attr_getdetachstate();
366 extern int pthread_attr_setscope();
367 extern int pthread_attr_getscope();
368 extern int pthread_attr_setinheritsched();
369 extern int pthread_attr_getinheritsched();
370 extern int pthread_attr_setschedpolicy();
371 extern int pthread_attr_getschedpolicy();
372 extern int pthread_attr_setschedparam();
373 extern int pthread_attr_getschedparam();
374 extern int pthread_create();
375 extern int pthread_once();
376 extern int pthread_join();
377 extern int pthread_detach();
378 extern void pthread_exit();
379 extern int pthread_cancel();
380 extern int pthread_setschedparam();
381 extern int pthread_getschedparam();
382 extern int pthread_setschedprio();
383 extern int pthread_setcancelstate();
384 extern int pthread_setcanceltype();
385 extern void pthread_testcancel();
386 extern int pthread_equal();
387 extern int pthread_key_create();
388 extern int pthread_key_create_once_np();
389 extern int pthread_key_delete();
390 extern int pthread_setspecific();
391 extern void *pthread_getspecific();
392 extern pthread_t pthread_self();
393 /*
394  * function prototypes - synchronization related calls
395  */
396 extern int pthread_mutexattr_init();
397 extern int pthread_mutexattr_destroy();
398 extern int pthread_mutexattr_setpshared();

```

```

399 extern int pthread_mutexattr_getpshared();
400 extern int pthread_mutexattr_setprotocol();
401 extern int pthread_mutexattr_getprotocol();
402 extern int pthread_mutexattr_setprioceiling();
403 extern int pthread_mutexattr_getprioceiling();
404 extern int pthread_mutexattr_setrobust();
405 extern int pthread_mutexattr_getrobust();
406 extern int pthread_mutex_init();
407 extern int pthread_mutex_consistent();
408 extern int pthread_mutex_destroy();
409 extern int pthread_mutex_lock();
410 extern int pthread_mutex_timedlock();
411 extern int pthread_mutex_reltimedlock_np();
412 extern int pthread_mutex_unlock();
413 extern int pthread_mutex_trylock();
414 extern int pthread_mutex_setprioceiling();
415 extern int pthread_mutex_getprioceiling();
416 extern int pthread_condattr_init();
417 extern int pthread_condattr_destroy();
418 extern int pthread_condattr_setclock();
419 extern int pthread_condattr_getclock();
420 extern int pthread_condattr_setpshared();
421 extern int pthread_condattr_getpshared();
422 extern int pthread_cond_init();
423 extern int pthread_cond_destroy();
424 extern int pthread_cond_broadcast();
425 extern int pthread_cond_signal();
426 extern int pthread_cond_wait();
427 extern int pthread_cond_timedwait();
428 extern int pthread_cond_reltimedwait_np();
429 extern int pthread_attr_getguardsize();
430 extern int pthread_attr_setguardsize();
431 extern int pthread_getconcurrency();
432 extern int pthread_setconcurrency();
433 extern int pthread_mutexattr_settype();
434 extern int pthread_mutexattr_gettype();
435 extern int pthread_rwlock_init();
436 extern int pthread_rwlock_destroy();
437 extern int pthread_rwlock_rdlock();
438 extern int pthread_rwlock_tryrdlock();
439 extern int pthread_rwlock_wrlock();
440 extern int pthread_rwlock_trywrlock();
441 extern int pthread_rwlock_unlock();
442 extern int pthread_rwlockattr_init();
443 extern int pthread_rwlockattr_destroy();
444 extern int pthread_rwlockattr_getpshared();
445 extern int pthread_rwlockattr_setpshared();
446 extern int pthread_spin_init();
447 extern int pthread_spin_destroy();
448 extern int pthread_spin_lock();
449 extern int pthread_spin_trylock();
450 extern int pthread_spin_unlock();
451 extern int pthread_barrierattr_init();
452 extern int pthread_barrierattr_destroy();
453 extern int pthread_barrierattr_setpshared();
454 extern int pthread_barrierattr_getpshared();
455 extern int pthread_barrier_init();
456 extern int pthread_barrier_destroy();
457 extern int pthread_barrier_wait();

459 /* Historical names -- present only for binary compatibility */
460 extern int pthread_mutex_consistent_np();
461 extern int pthread_mutexattr_setrobust_np();
462 extern int pthread_mutexattr_getrobust_np();

464 #endif /* __STDC__ */

```

```

340 #endif /* _ASM */

342 #ifdef __cplusplus
343 }
_____ unchanged_portion_omitted

```

new/usr/src/head/pw.h

1

\*\*\*\*\*

1204 Sat Aug 2 23:27:12 2014

new/usr/src/head/pw.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
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21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */
```

```
28 #ifndef _PW_H
29 #define _PW_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.2 */
```

```
31 #ifdef __cplusplus
32 extern "C" {
33 #endif
```

```
35 #if defined(__STDC__)
```

```
35 extern char *logname(void);
36 extern char *regcmp(const char *, ...);
37 extern char *regex(const char *, const char *, ...);
40 #else
41 extern char *logname();
42 extern char *regcmp();
43 extern char *regex();
```

```
45 #endif
```

```
39 #ifdef __cplusplus
40 }
```

```
_____unchanged_portion_omitted_
```

new/usr/src/head/pwd.h

1

```
*****
5943 Sat Aug 2 23:27:12 2014
new/usr/src/head/pwd.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
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4  * The contents of this file are subject to the terms of the
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 #ifndef _PWD_H
34 #define _PWD_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3.1.9 */

36 #include <sys/feature_tests.h>

38 #include <sys/types.h>

40 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
41 #include <stdio.h>
42 #endif

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

48 struct passwd {
49     char    *pw_name;
50     char    *pw_passwd;
51     uid_t   pw_uid;
52     gid_t   pw_gid;
53     char    *pw_age;
54     char    *pw_comment;
55     char    *pw_gecos;
56     char    *pw_dir;
57     char    *pw_shell;
58 };
    unchanged_portion_omitted
```

new/usr/src/head/pwd.h

2

```
67 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
69 #if defined(__STDC__)

69 extern struct passwd *getpwuid(uid_t);      /* MT-unsafe */
70 extern struct passwd *getpwnam(const char *); /* MT-unsafe */

72 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
73 extern struct passwd *getpwent_r(struct passwd *, char *, int);
74 extern struct passwd *fgetpwent_r(FILE *, struct passwd *, char *, int);
75 extern struct passwd *fgetpwent(FILE *);    /* MT-unsafe */
76 extern int putpwent(const struct passwd *, FILE *);
77 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

79 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || \
80     defined(__EXTENSIONS__)
81 extern void endpwent(void);
82 extern struct passwd *getpwent(void);       /* MT-unsafe */
83 extern void setpwent(void);
84 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) ... */

88 #else /* (__STDC__) */

90 extern struct passwd *getpwuid();           /* MT-unsafe */
91 extern struct passwd *getpwnam();          /* MT-unsafe */

93 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
94 extern struct passwd *getpwent_r();
95 extern struct passwd *fgetpwent_r();

97 extern struct passwd *fgetpwent();         /* MT-unsafe */
98 extern int putpwent();
99 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

101 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || \
102     defined(__EXTENSIONS__)
103 extern void endpwent();
104 extern struct passwd *getpwent();         /* MT-unsafe */
105 extern void setpwent();
106 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) ... */

108 #endif /* (__STDC__) */

86 /*
87  * getpwuid_r() & getpwnam_r() prototypes are defined here.
88  */

90 /*
91  * Previous releases of Solaris, starting at 2.3, provided definitions of
92  * various functions as specified in POSIX.1c, Draft 6. For some of these
93  * functions, the final POSIX 1003.1c standard had a different number of
94  * arguments and return values.
95  *
96  * The following segment of this header provides support for the standard
97  * interfaces while supporting applications written under earlier
98  * releases. The application defines appropriate values of the feature
99  * test macros _POSIX_C_SOURCE and _POSIX_PTHREAD_SEMANTICS to indicate
100 * whether it was written to expect the Draft 6 or standard versions of
101 * these interfaces, before including this header. This header then
102 * provides a mapping from the source version of the interface to an
103 * appropriate binary interface. Such mappings permit an application
104 * to be built from libraries and objects which have mixed expectations
105 * of the definitions of these functions.
106 *
107 * For applications using the Draft 6 definitions, the binary symbol is the
108 * same as the source symbol, and no explicit mapping is needed. For the
```

```

109 * standard interface, the function func() is mapped to the binary symbol
110 * __posix_func(). The preferred mechanism for the remapping is a compiler
111 * #pragma. If the compiler does not provide such a #pragma, the header file
112 * defines a static function func() which calls the __posix_func() version;
113 * this has to be done instead of #define since POSIX specifies that an
114 * application can #undef the symbol and still be bound to the correct
115 * implementation. Unfortunately, the statics confuse lint so we fallback to
116 * #define in that case.
117 *
118 * NOTE: Support for the Draft 6 definitions is provided for compatibility
119 * only. New applications/libraries should use the standard definitions.
120 */

122 #if !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE - 0 >= 199506L) || \
123     defined(_POSIX_PTHREAD_SEMANTICS) || defined(__EXTENSIONS__)

149 #if defined(__STDC__)

125 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

127 #ifdef __PRAGMA_REDEFINE_EXTNAME
128 #pragma redefine_extname getpuid_r __posix_getpuid_r
129 #pragma redefine_extname getpwnam_r __posix_getpwnam_r
130 extern int getpuid_r(uid_t, struct passwd *, char *, int, struct passwd **);
131 extern int getpwnam_r(const char *, struct passwd *, char *,
132                      int, struct passwd **);
133 #else /* __PRAGMA_REDEFINE_EXTNAME */

135 extern int __posix_getpuid_r(uid_t, struct passwd *, char *, size_t,
136                             struct passwd **);
137 extern int __posix_getpwnam_r(const char *, struct passwd *, char *,
138                              size_t, struct passwd **);

140 #ifdef __lint

142 #define getpuid_r __posix_getpuid_r
143 #define getpwnam_r __posix_getpwnam_r

145 #else /* !__lint */

147 static int
148 getpuid_r(uid_t __uid, struct passwd *__pwd, char *__buf, int __len,
149           struct passwd **__res)
150 {
151     return (__posix_getpuid_r(__uid, __pwd, __buf, __len, __res));
152 }

_____ unchanged portion omitted _____

160 #endif /* !__lint */
161 #endif /* __PRAGMA_REDEFINE_EXTNAME */

163 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

165 extern struct passwd *getpuid_r(uid_t, struct passwd *, char *, int);
166 extern struct passwd *getpwnam_r(const char *, struct passwd *, char *, int);

168 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

196 #else /* __STDC__ */

198 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

200 #ifdef __PRAGMA_REDEFINE_EXTNAME
201 #pragma redefine_extname getpuid_r __posix_getpuid_r
202 #pragma redefine_extname getpwnam_r __posix_getpwnam_r
203 extern int getpuid_r();

```

```

204 extern int getpwnam_r();
205 #else /* __PRAGMA_REDEFINE_EXTNAME */

207 extern int __posix_getpuid_r();
208 extern int __posix_getpwnam_r();

210 #ifdef __lint

212 #define getpuid_r __posix_getpuid_r
213 #define getpwnam_r __posix_getpwnam_r

215 #else /* !__lint */

217 static int
218 getpuid_r(__uid, __pwd, __buf, __len, __res)
219     uid_t __uid;
220     struct passwd *__pwd;
221     char *__buf;
222     int __len;
223     struct passwd **__res;
224 {
225     return (__posix_getpuid_r(__uid, __pwd, __buf, __len, __res));
226 }
227 static int
228 getpwnam_r(__cb, __pwd, __buf, __len, __res)
229     char *__cb;
230     struct passwd *__pwd;
231     char *__buf;
232     int __len;
233     struct passwd **__res;
234 {
235     return (__posix_getpwnam_r(__cb, __pwd, __buf, __len, __res));
236 }

238 #endif /* !__lint */
239 #endif /* __PRAGMA_REDEFINE_EXTNAME */

241 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

243 extern struct passwd *getpuid_r();
244 extern struct passwd *getpwnam_r();

246 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

248 #endif /* __STDC__ */

170 #endif /* !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE - 0 >= 199506L)... */

172 #ifdef __cplusplus
173 }

_____ unchanged portion omitted _____

```

new/usr/src/head/re\_comp.h

1

```
*****
1221 Sat Aug  2 23:27:12 2014
new/usr/src/head/re_comp.h
remove support for non-ANSI compilation
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19 *
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21 */
22 /*
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24 *
25 * Copyright (c) 1995, 2000 by Sun Microsystems, Inc.
26 * All rights reserved.
27 */

29 #ifndef _RE_COMP_H
30 #define _RE_COMP_H

32 #include <sys/feature_tests.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 #if defined(__STDC__)

38 extern char *re_comp(const char *);
39 extern int re_exec(const char *);

43 #else

45 extern char *re_comp();
46 extern int re_exec();

48 #endif /* __STDC__ */

41 #ifdef __cplusplus
42 }
_____unchanged_portion_omitted_
```

```

*****
5644 Sat Aug  2 23:27:12 2014
new/usr/src/head/regex.h
remove support for non-ANSI compilation
*****
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31 * All rights reserved.
32 */
33 /*
34 * Copyright 2010 Nexenta Systems, Inc. All rights reserved.
35 * Use is subject to license terms.
36 */

38 #ifndef _REGEX_H
39 #define _REGEX_H

41 #include <sys/feature_tests.h>
42 #include <sys/types.h>

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

49 /*
50  * wchar_t is a built-in type in standard C++ and as such is not
51  * defined here when using standard C++. However, the GNU compiler
52  * fixincludes utility nonetheless creates its own version of this
53  * header for use by gcc and g++. In that version it adds a redundant
54  * guard for __cplusplus. To avoid the creation of a gcc/g++ specific
55  * header we need to include the following magic comment:
56  *
57  * we must use the C++ compiler's type
58  *
59  * The above comment should not be removed or changed until GNU
60  * gcc/fixinc/inclhack.def is updated to bypass this header.
61  */

```

```

62 #if !defined(__cplusplus) || (__cplusplus < 199711L && !defined(__GNU__))
63 #ifndef _WCHAR_T
64 #define _WCHAR_T
65 #if defined(_LP64)
66 typedef int    wchar_t;
67 #else
68 typedef long   wchar_t;
69 #endif
70 #endif /* !_WCHAR_T */
71 #endif /* !defined(__cplusplus) ... */

73 typedef ssize_t regoff_t;

75 /* regcomp flags */
76 #define REG_BASIC      0x00
77 #define REG_EXTENDED  0x01      /* Use Extended Regular Expressions */
78 #define REG_NEWLINE    0x08      /* Treat \n as regular character */
79 #define REG_ICASE      0x04      /* Ignore case in match */
80 #define REG_NOSUB      0x02      /* Don't set subexpression */
81 #define REG_EGREP      0x1000    /* running as egrep(1) */

83 /* non-standard flags - note that most of these are not supported */
84 #define REG_DEBLIM     0x10      /* string[0] is delimiter */
85 #define REG_DEBUG      0x20      /* Debug recompile and regexec */
86 #define REG_ANCHOR     0x40      /* Implicit ^ and $ */
87 #define REG_WORDS      0x80      /* \< and \> match word boundaries */

89 /* FreeBSD additions */
90 #define REG_DUMP        0x2000
91 #define REG_PEND        0x4000
92 #define REG_NOSPEC      0x8000
93 #define REG_STARTEND   0x10000

95 /* internal flags */
96 #define REG_MUST        0x100      /* check for regmust substring */

98 /* regexec flags */
99 #define REG_NOTBOL      0x200      /* string is not BOL */
100 #define REG_NOTEOL     0x400      /* string has no EOL */
101 #define REG_NOOPT       0x800      /* don't do regmust optimization */

103 /* regcomp and regexec return codes */
104 #define REG_OK          0          /* success (non-standard) */
105 #define REG_NOMATCH    1          /* regexec failed to match */
106 #define REG_ECOLLATE   2          /* invalid collation element ref. */
107 #define REG_ESCAPE     3          /* trailing \ in pattern */
108 #define REG_ENEWSLINE  4          /* \n found before end of pattern */
109 #define REG_ENSUB      5          /* more than 9 \( \) pairs (OBS) */
110 #define REG_ESUBREG    6          /* number in \[0-9] invalid */
111 #define REG_EBRACK     7          /* [ ] imbalance */
112 #define REG_EPAREN     8          /* ( ) imbalance */
113 #define REG_EBRACE     9          /* { \} imbalance */
114 #define REG_ERANGE    10         /* invalid endpoint in range */
115 #define REG_ESPACE    11         /* no memory for compiled pattern */
116 #define REG_BADRPT    12         /* invalid repetition */
117 #define REG_ECTYPE    13         /* invalid char-class type */
118 #define REG_BADPAT    14         /* syntax error */
119 #define REG_BADBR    15         /* { \} contents bad */
120 #define REG_EFATAL   16         /* internal error, not POSIX.2 */
121 #define REG_ECHAR    17         /* invalid multibyte character */
122 #define REG_STACK    18         /* backtrack stack overflow */
123 #define REG_ENOSYS   19         /* function not supported (XPG4) */
124 #define REG_LAST     20         /* first unused code */
125 #define REG_EBOL     21         /* ^ anchor and not BOL */
126 #define REG_EEOL     22         /* $ anchor and not EOL */
127 #define REG_BACKREF_MAX 9        /* Max # of subexp. backreference */

```



```
129 typedef struct {
130     size_t re_nsub;      /* regcomp() data saved for regexec() */
131                         /* # of subexpressions in RE pattern */
132
133     /*
134     * Internal use only. Note that any changes to this structure
135     * have to preserve sizing, as it is baked into applications.
136     */
137     struct re_guts *re_g;
138     int re_magic;
139     const char *re_endp;
140
141     /* here for compat */
142     size_t re_len;      /* # wchar_t chars in compiled pattern */
143     struct _regex_ext_t *re_sc; /* for binary compatibility */
144 } regex_t;
145
146 /* subexpression positions */
147 typedef struct {
148 #ifdef __STDC__
149     const char *rm_sp, *rm_ep; /* Start pointer, end pointer */
150 #else
151     char *rm_sp, *rm_ep; /* Start pointer, end pointer */
152 #endif
153     regoff_t rm_so, rm_eo; /* Start offset, end offset */
154     int rm_ss, rm_es; /* Used internally */
155 } regmatch_t;
156
157 /*
158 * Additional API and structs to support regular expression manipulations
159 * on wide characters.
160 */
161 #if defined(__STDC__)
162 extern int regcomp(regex_t *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, int);
163 extern int regexec(const regex_t *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
164     size_t, regmatch_t *_RESTRICT_KYWD, int);
165 extern size_t regerror(int, const regex_t *_RESTRICT_KYWD,
166     char *_RESTRICT_KYWD, size_t);
167 extern void regfree(regex_t *);
168 #else /* defined(__STDC__) */
169 extern int regcomp();
170 extern int regexec();
171 extern size_t regerror();
172 extern void regfree();
173 #endif /* defined(__STDC__) */
174
175 #ifdef __cplusplus
176 }
177
178 unchanged_portion_omitted

```

```

*****
9594 Sat Aug 2 23:27:12 2014
new/usr/src/head/regex.h
remove support for non-ANSI compilation
*****
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26  *
27  * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
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29  */

31 #ifndef _REGEXP_H
32 #define _REGEXP_H

33 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.9 */

34 #include <string.h>

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 #define CBRA      2
41 #define CCHR      4
42 #define CDOT      8
43 #define CCL      12
44 #define CXCL     16
45 #define CDOL     20
46 #define CCEOF    22
47 #define CKET     24
48 #define CBACK    36
49 #define NCCL     40

51 #define STAR      01
52 #define RNGE      03

54 #define NBRA      9

56 #define PLACE(c)      ep[c >> 3] |= bittab[c & 07]
57 #define ISTHERE(c)    (ep[c >> 3] & bittab[c & 07])
58 #define ecmp(s1, s2, n) (strncmp(s1, s2, n) == 0)

```

```

60 static char      *braslist[NBRA];
61 static char      *braelist[NBRA];
62 int      sed, nbra;
63 char      *loc1, *loc2, *locs;
64 static int      nodelim;

66 int      circf;
67 static int      low;
68 static int      size;

70 static unsigned char      bittab[] = { 1, 2, 4, 8, 16, 32, 64, 128 };

73 #ifdef __STDC__
72 int advance(const char *lp, const char *ep);
73 static void getrngc(const char *str);
76 #else
77 int advance();
78 static void getrngc();
79 #endif

75 char *
82 #ifdef __STDC__
76 compile(char *instring, char *ep, const char *endbuf, int seof)
84 #else
85 compile(instring, ep, endbuf, seof)
86 register char *ep;
87 char *instring, *endbuf;
88 int seof;
89 #endif
77 {
78     INIT      /* Dependent declarations and initializations */
79     register int c;
80     register int eof = seof;
81     char *lastep;
82     int cclcnt;
83     char bracket[NBRA], *bracketp;
84     int closed;
85     int neg;
86     int lc;
87     int i, cflg;
88     int iflag; /* used for non-ascii characters in brackets */

90 #ifdef __lint
91     /* make lint happy */
92     c = nodelim;
93 #endif

95     lastep = NULL;
96     if ((c = GETC()) == eof || c == '\n') {
97         if (c == '\n') {
98             UNGETC(c);
99             nodelim = 1;
100        }
101        if (*ep == 0 && !sed)
102            ERROR(41);
103        RETURN(ep);
104    }
105    bracketp = bracket;
106    circf = closed = nbra = 0;
107    if (c == '^')
108        circf++;
109    else
110        UNGETC(c);
111    for (;;) {
112        if (ep >= endbuf)

```

```

113         ERROR(50);
114     c = GETC();
115     if (c != '*' && ((c != '\\') || (PEEK() != '{')))
116         lastep = ep;
117     if (c == eof) {
118         *ep++ = CCEOF;
119         if (bracketp != bracket)
120             ERROR(42);
121         RETURN(ep);
122     }
123     switch (c) {
124
125     case '.':
126         *ep++ = CDOT;
127         continue;
128
129     case '\n':
130         if (!sed) {
131             UNGETC(c);
132             *ep++ = CCEOF;
133             nodelim = 1;
134             if (bracketp != bracket)
135                 ERROR(42);
136             RETURN(ep);
137         } else ERROR(36);
138     case '*':
139         if (lastep == NULL || *lastep == CBRA ||
140             *lastep == CKET)
141             goto defchar;
142         *lastep |= STAR;
143         continue;
144
145     case '$':
146         if (PEEK() != eof && PEEK() != '\n')
147             goto defchar;
148         *ep++ = CDOL;
149         continue;
150
151     case '[':
152         if (&ep[17] >= endbuf)
153             ERROR(50);
154
155         *ep++ = CCL;
156         lc = 0;
157         for (i = 0; i < 16; i++)
158             ep[i] = 0;
159
160         neg = 0;
161         if ((c = GETC()) == '^') {
162             neg = 1;
163             c = GETC();
164         }
165         iflag = 1;
166         do {
167             c &= 0377;
168             if (c == '\0' || c == '\n')
169                 ERROR(49);
170             if ((c & 0200) && iflag) {
171                 iflag = 0;
172                 if (&ep[32] >= endbuf)
173                     ERROR(50);
174                 ep[-1] = CXCL;
175                 for (i = 16; i < 32; i++)
176                     ep[i] = 0;
177             }
178             if (c == '-' && lc != 0) {

```

```

179                 if ((c = GETC()) == '-') {
180                     PLACE('-');
181                     break;
182                 }
183                 if ((c & 0200) && iflag) {
184                     iflag = 0;
185                     if (&ep[32] >= endbuf)
186                         ERROR(50);
187                     ep[-1] = CXCL;
188                     for (i = 16; i < 32; i++)
189                         ep[i] = 0;
190                 }
191                 while (lc < c) {
192                     PLACE(lc);
193                     lc++;
194                 }
195                 lc = c;
196                 PLACE(c);
197             } while ((c = GETC()) != ']');
198
199         if (iflag)
200             iflag = 16;
201         else
202             iflag = 32;
203
204         if (neg) {
205             if (iflag == 32) {
206                 for (cclcnt = 0; cclcnt < iflag;
207                     cclcnt++)
208                     ep[cclcnt] ^= 0377;
209             } else {
210                 ep[0] &= 0376;
211                 ep[-1] = NCCL;
212                 /* make nulls match so test fails */
213                 ep[0] |= 01;
214             }
215         }
216
217         ep += iflag;
218         continue;
219
220     case '\\':
221         switch (c = GETC()) {
222
223         case '(':
224             if (nbra >= NBRA)
225                 ERROR(43);
226             *bracketp++ = (char)nbra;
227             *ep++ = CBRA;
228             *ep++ = (char)nbra++;
229             continue;
230
231         case ')':
232             if (bracketp <= bracket)
233                 ERROR(42);
234             *ep++ = CKET;
235             *ep++ = *--bracketp;
236             closed++;
237             continue;
238
239         case '{':
240             if (lastep == NULL)
241                 goto defchar;
242             *lastep |= RNGE;

```

```

245         cflg = 0;
246     nlim:
247         c = GETC();
248         i = 0;
249         do {
250             if ('0' <= c && c <= '9')
251                 i = 10 * i + c - '0';
252             else
253                 ERROR(16);
254         } while (((c = GETC()) != '\\') && (c != ','));
255         if (i >= 255)
256             ERROR(11);
257         *ep++ = (char)i;
258         if (c == ',') {
259             if (cflg++)
260                 ERROR(44);
261             if ((c = GETC()) == '\\')
262                 *ep++ = (char)255;
263             else {
264                 UNGETC(c);
265                 goto nlim;
266                 /* get 2'nd number */
267             }
268         }
269         if (GETC() != ',')
270             ERROR(45);
271         if (!cflg) /* one number */
272             *ep++ = (char)i;
273         else if ((ep[-1] & 0377) < (ep[-2] & 0377))
274             ERROR(46);
275         continue;
276
277     case '\n':
278         ERROR(36);
279
280     case 'n':
281         c = '\n';
282         goto defchar;
283
284     default:
285         if (c >= '1' && c <= '9') {
286             if ((c == '1') >= closed)
287                 ERROR(25);
288             *ep++ = CBACK;
289             *ep++ = (char)c;
290             continue;
291         }
292     }
293     /* Drop through to default to use \ to turn off special chars */
294
295     defchar:
296     default:
297         lastep = ep;
298         *ep++ = CCHR;
299         *ep++ = (char)c;
300     }
301 }
302 /*NOTREACHED*/
303 }
304
305 #ifdef __STDC__
306 int
307 step(const char *p1, const char *p2)
308 #else
309 int
310 step(p1, p2)

```

```

324 register char *p1, *p2;
325 #endif
326 {
327     char c;
328
329     if (circf) {
330         loc1 = (char *)p1;
331         return (advance(p1, p2));
332     }
333     /* fast check for first character */
334     if (*p2 == CCHR) {
335         c = p2[1];
336         do {
337             if (*p1 != c)
338                 continue;
339             if (advance(p1, p2)) {
340                 loc1 = (char *)p1;
341                 return (1);
342             }
343         } while (*p1++);
344         return (0);
345     }
346     /* regular algorithm */
347     do {
348         if (advance(p1, p2)) {
349             loc1 = (char *)p1;
350             return (1);
351         }
352     } while (*p1++);
353     return (0);
354 }
355
356 int
357 #ifdef __STDC__
358 advance(const char *lp, const char *ep)
359 #else
360 advance(lp, ep)
361 register char *lp, *ep;
362 #endif
363 {
364     #ifdef __STDC__
365         const char *curlp;
366     #else
367         register char *curlp;
368     #endif
369     int c;
370     char *bbeg;
371     register char neg;
372     size_t ct;
373
374     for (;;) {
375         neg = 0;
376         switch (*ep++) {
377             case CCHR:
378                 if (*ep++ == *lp++)
379                     continue;
380                 return (0);
381                 /*FALLTHRU*/
382             case CDOT:
383                 if (*lp++)
384                     continue;
385                 return (0);
386                 /*FALLTHRU*/

```

```

363     case CDOL:
364         if (*lp == 0)
365             continue;
366         return (0);
367         /*FALLTHRU*/

369     case CCEOF:
370         loc2 = (char *)lp;
371         return (1);
372         /*FALLTHRU*/

374     case CXCL:
375         c = (unsigned char)*lp++;
376         if (ISTHERE(c)) {
377             ep += 32;
378             continue;
379         }
380         return (0);
381         /*FALLTHRU*/

383     case NCCL:
384         neg = 1;
385         /*FALLTHRU*/

387     case CCL:
388         c = *lp++;
389         if (((c & 0200) == 0 && ISTHERE(c)) ^ neg) {
390             ep += 16;
391             continue;
392         }
393         return (0);
394         /*FALLTHRU*/

396     case CBRA:
397         braslist[*ep++] = (char *)lp;
398         continue;
399         /*FALLTHRU*/

401     case CKET:
402         braelist[*ep++] = (char *)lp;
403         continue;
404         /*FALLTHRU*/

406     case CCHR | RNGE:
407         c = *ep++;
408         getrnge(ep);
409         while (low--)
410             if (*lp++ != c)
411                 return (0);
412         curlp = lp;
413         while (size--)
414             if (*lp++ != c)
415                 break;
416         if (size < 0)
417             lp++;
418         ep += 2;
419         goto star;
420         /*FALLTHRU*/

422     case CDOT | RNGE:
423         getrnge(ep);
424         while (low--)
425             if (*lp++ == '\0')
426                 return (0);
427         curlp = lp;

```

```

428         while (size--)
429             if (*lp++ == '\0')
430                 break;
431         if (size < 0)
432             lp++;
433         ep += 2;
434         goto star;
435         /*FALLTHRU*/

437     case CXCL | RNGE:
438         getrnge(ep + 32);
439         while (low--) {
440             c = (unsigned char)*lp++;
441             if (!ISTHERE(c))
442                 return (0);
443         }
444         curlp = lp;
445         while (size--) {
446             c = (unsigned char)*lp++;
447             if (!ISTHERE(c))
448                 break;
449         }
450         if (size < 0)
451             lp++;
452         ep += 34; /* 32 + 2 */
453         goto star;
454         /*FALLTHRU*/

456     case NCCL | RNGE:
457         neg = 1;
458         /*FALLTHRU*/

460     case CCL | RNGE:
461         getrnge(ep + 16);
462         while (low--) {
463             c = *lp++;
464             if (((c & 0200) || !ISTHERE(c)) ^ neg)
465                 return (0);
466         }
467         curlp = lp;
468         while (size--) {
469             c = *lp++;
470             if (((c & 0200) || !ISTHERE(c)) ^ neg)
471                 break;
472         }
473         if (size < 0)
474             lp++;
475         ep += 18; /* 16 + 2 */
476         goto star;
477         /*FALLTHRU*/

479     case CBACK:
480         bbeg = braslist[*ep];
481         ct = braelist[*ep++] - bbeg;

483         if (ecmp(bbeg, lp, ct)) {
484             lp += ct;
485             continue;
486         }
487         return (0);
488         /*FALLTHRU*/

490     case CBACK | STAR:
491         bbeg = braslist[*ep];
492         ct = braelist[*ep++] - bbeg;
493         curlp = lp;

```

```

494         while (ecmp(bbeg, lp, ct))
495             lp += ct;
497         while (lp >= curlp) {
498             if (advance(lp, ep))
499                 return (1);
500             lp -= ct;
501         }
502         return (0);
503         /*FALLTHRU*/
505     case CDOT | STAR:
506         curlp = lp;
507         while (*lp++);
508         goto star;
509         /*FALLTHRU*/
511     case CCHR | STAR:
512         curlp = lp;
513         while (*lp++ == *ep);
514         ep++;
515         goto star;
516         /*FALLTHRU*/
518     case CXCL | STAR:
519         curlp = lp;
520         do {
521             c = (unsigned char)*lp++;
522         } while (ISTHERE(c));
523         ep += 32;
524         goto star;
525         /*FALLTHRU*/
527     case NCCL | STAR:
528         neg = 1;
529         /*FALLTHRU*/
531     case CCL | STAR:
532         curlp = lp;
533         do {
534             c = *lp++;
535         } while (((c & 0200) == 0 && ISTHERE(c)) ^ neg);
536         ep += 16;
537         goto star;
538         /*FALLTHRU*/
540     star:
541         do {
542             if (--lp == locs)
543                 break;
544             if (advance(lp, ep))
545                 return (1);
546         } while (lp > curlp);
547         return (0);
549     }
550 }
551 /*NOTREACHED*/
552 }
554 static void
555 #ifdef __STDC__
556 getrnge(const char *str)
557 #else
558 #else
559 getrnge(str)
560 register char *str;

```

```

588 #endif
589 {
590     low = *str++ & 0377;
591     size = ((*str & 0377) == 255)? 20000: (*str & 0377) - low;
592 }
593 }
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```

```

*****
17181 Sat Aug  2 23:27:12 2014
new/usr/src/head/resolv.h
remove support for non-ANSI compilation
*****
1 /*
2  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
3  *
4  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
5  * Use is subject to license terms.
6  *
7  * Copyright (c) 1983, 1984, 1985, 1986, 1987, 1988, 1989 AT&T
8  * All Rights Reserved
9  *
10 * Portions of this source code were derived from Berkeley
11 * 4.3 BSD under license from the regents of the University of
12 * California.
13 */

15 /*
16 * BIND 4.9.4:
17 */

19 /*
20 * Portions Copyright (c) 1993 by Digital Equipment Corporation.
21 *
22 * Permission to use, copy, modify, and distribute this software for any
23 * purpose with or without fee is hereby granted, provided that the above
24 * copyright notice and this permission notice appear in all copies, and that
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26 * publicity pertaining to distribution of the document or software without
27 * specific, written prior permission.
28 *
29 * THE SOFTWARE IS PROVIDED "AS IS" AND DIGITAL EQUIPMENT CORP. DISCLAIMS ALL
30 * WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES
31 * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL DIGITAL EQUIPMENT
32 * CORPORATION BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
33 * DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
34 * PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
35 * ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
36 * SOFTWARE.
37 * --Copyright--
38 *
39 * End BIND 4.9.4
40 */

42 /*
43 * Copyright (c) 1983, 1987, 1989
44 * The Regents of the University of California. All rights reserved.
45 *
46 * Redistribution and use in source and binary forms, with or without
47 * modification, are permitted provided that the following conditions
48 * are met:
49 * 1. Redistributions of source code must retain the above copyright
50 * notice, this list of conditions and the following disclaimer.
51 * 2. Redistributions in binary form must reproduce the above copyright
52 * notice, this list of conditions and the following disclaimer in the
53 * documentation and/or other materials provided with the distribution.
54 * 3. All advertising materials mentioning features or use of this software
55 * must display the following acknowledgement:
56 * This product includes software developed by the University of
57 * California, Berkeley and its contributors.
58 * 4. Neither the name of the University nor the names of its contributors
59 * may be used to endorse or promote products derived from this software
60 * without specific prior written permission.
61 *

```

```

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66 * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
67 * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
68 * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
69 * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
70 * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
71 * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
72 * SUCH DAMAGE.
73 */

75 /*
76 * Portions Copyright (c) 1996-1999 by Internet Software Consortium.
77 *
78 * Permission to use, copy, modify, and distribute this software for any
79 * purpose with or without fee is hereby granted, provided that the above
80 * copyright notice and this permission notice appear in all copies.
81 *
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84 * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
85 * CONSORTIUM BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL
86 * DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
87 * PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS
88 * ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS
89 * SOFTWARE.
90 */

92 /*
93 *      @(#)resolv.h      8.1 (Berkeley) 6/2/93
94 *      $Id: resolv.h,v 8.52 2003/04/29 02:27:03 marka Exp $
95 */

97 #ifndef _RESOLV_H_
98 #define _RESOLV_H_

100 #include <sys/param.h>

102 #include <stdio.h>
103 #include <arpa/nameser.h>
104 #include <sys/socket.h>

106 #ifdef __cplusplus
107 extern "C" {
108 #endif

110 /*
111 * Revision information. This is the release date in YYYYMMDD format.
112 * It can change every day so the right thing to do with it is use it
113 * in preprocessor commands such as "#if (__RES > 19931104)". Do not
114 * compare for equality; rather, use it to determine whether your resolver
115 * is new enough to contain a certain feature.
116 */

118 #define __RES      20090302

120 #define RES_SET_H_ERRNO(r, x)  __h_errno_set(r, x)
121 struct __res_state;          /* forward */

123 void __h_errno_set(struct __res_state *res, int err);

125 /*
126 * Resolver configuration file.
127 * Normally not present, but may contain the address of the

```

```
128 * initial name server(s) to query and the domain search list.
129 */

131 #ifndef _PATH_RESCONF
132 #define _PATH_RESCONF      "/etc/resolv.conf"
133 #endif

134 #ifdef __STDC__
135 #ifndef __P
136 #define __P(x)  x
137 #endif
138 #else
139 #define __P(x)  ()
140 #endif
141 #endif /* __STDC__ */

139 typedef enum { res_goahead, res_nextns, res_modified, res_done, res_error }
140 res_sendhookact;

142 typedef res_sendhookact (*res_send_ghook)__P((struct sockaddr * const *ns,
143                                               const uchar_t **query,
144                                               int *querylen,
145                                               uchar_t *ans,
146                                               int anssiz,
147                                               int *resplen));

149 typedef res_sendhookact (*res_send_rhook)__P((const struct sockaddr *ns,
150                                               const uchar_t *query,
151                                               int querylen,
152                                               uchar_t *ans,
153                                               int anssiz,
154                                               int *resplen));

156 struct res_sym {
157     int      number;      /* Identifying number, like T_MX */
158     const char *name;     /* Its symbolic name, like "MX" */
159     const char *humanname; /* Its fun name, like "mail exchanger" */
160 };
_____unchanged_portion_omitted_____
```



new/usr/src/head/rpcsvc/nis\_db.h

1

```
*****
2920 Sat Aug 2 23:27:12 2014
new/usr/src/head/rpcsvc/nis_db.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright (c) 1991,1997-1998 by Sun Microsystems, Inc.
26 * All rights reserved.
27 */

29 /*
30 * This header file defines the interface to the NIS database. All
31 * implementations of the database must export at least these routines.
32 * They must also follow the conventions set herein. See the implementors
33 * guide for specific semantics that are required.
34 */

36 #ifndef _RPCSVC_NIS_DB_H
37 #define _RPCSVC_NIS_DB_H

38 #pragma ident "%Z%M% %I% %E% SMI"

39 #include <rpc/rpc.h>
40 #include <rpcsvc/nis.h>

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

46 enum db_status {
47     DB_SUCCESS = 0,
48     DB_NOTFOUND = 1,
49     DB_NOTUNIQUE = 2,
50     DB_BADTABLE = 3,
51     DB_BADQUERY = 4,
52     DB_BADOBJECT = 5,
53     DB_MEMORY_LIMIT = 6,
54     DB_STORAGE_LIMIT = 7,
55     DB_INTERNAL_ERROR = 8
56 };
unchanged_portion_omitted
86 typedef struct db_result db_result;
```

new/usr/src/head/rpcsvc/nis\_db.h

2

```
88 /*
89  * Prototypes for the database functions.
90  */

92 #if defined(__STDC__) || defined(__cplusplus)

92 extern bool_t db_initialize(char *);
93 extern db_status db_create_table(char *, table_obj *);
94 extern db_status db_destroy_table(char *);
95 extern db_result *db_first_entry(char *, int, nis_attr *);
96 extern db_result *db_next_entry(char *, db_next_desc *);
97 extern db_result *db_reset_next_entry(char *, db_next_desc *);
98 extern db_result *db_list_entries(char *, int, nis_attr *);
99 extern db_result *db_add_entry(char *, int, nis_attr *, entry_obj *);
100 extern db_result *db_remove_entry(char *, int, nis_attr *);
101 extern db_status db_checkpoint(char *);
102 extern db_status db_standby(char *);
103 extern db_status db_table_exists(char *);
104 extern db_status db_unload_table(char *);
105 extern void db_free_result(db_result *);

109 #else /* Non-prototype definitions */

111 extern bool_t db_initialize();
112 extern db_status db_create_table();
113 extern db_status db_destroy_table();
114 extern db_result *db_first_entry();
115 extern db_result *db_next_entry();
116 extern db_result *db_reset_next_entry();
117 extern db_result *db_list_entries();
118 extern db_result *db_add_entry();
119 extern db_result *db_remove_entry();
120 extern db_status db_checkpoint();
121 extern db_status db_standby();
122 extern db_status db_table_exists();
123 extern db_status db_unload_table();
124 extern void db_free_result();

126 #endif /* defined(__STDC__) || defined(__cplusplus) */

107 #ifdef __cplusplus
108 }
unchanged_portion_omitted
```

new/usr/src/head/rpcsvc/nislib.h

1

```
*****
2035 Sat Aug 2 23:27:12 2014
new/usr/src/head/rpcsvc/nislib.h
remove support for non-ANSI compilation
*****
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21 /*
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24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
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26 */

28 /*
29 * nislib.h
30 *
31 * This file contains the interfaces that are visible in the SunOS 5.x
32 * implementation of NIS Plus.
33 * implementation of NIS Plus. When using C++ the defined __cplusplus and
34 * __STDC__ should both be true.
35 */

35 #ifndef _RPCSVC_NISLIB_H
36 #define _RPCSVC_NISLIB_H

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

42 #ifdef __STDC__
43 extern name_pos nis_dir_cmp(nis_name, nis_name);

44 extern nis_name nis_domain_of(nis_name);
45 extern nis_name nis_leaf_of(nis_name);
46 extern nis_name nis_leaf_of_r(const nis_name, char *, size_t);
47 extern nis_name nis_name_of(nis_name);
48 extern nis_name nis_local_group(void);
49 extern nis_name nis_local_directory(void);
50 extern nis_name nis_local_host(void);

51 extern void nis_destroy_object(nis_object *);
52 extern nis_object *nis_clone_object(nis_object *, nis_object *);
53 extern nis_object *nis_read_obj(char *);
54 extern int nis_write_obj(char *, nis_object *);

55 extern void *nis_get_static_storage(struct nis_sdata *, uint_t, uint_t);
```

new/usr/src/head/rpcsvc/nislib.h

2

```
59 extern nis_name __nis_rpc_domain(void);

61 CLIENT *__nis_clnt_create(int, struct netconfig *, char *, struct netbuf *,
62 int, int, int, int, int);

64 #else

66 /* Non-prototype definitions (old fashioned C) */

68 extern name_pos nis_dir_cmp();

70 extern nis_name nis_domain_of();
71 extern nis_name nis_leaf_of();
72 extern nis_name nis_leaf_of_r();
73 extern nis_name nis_name_of();
74 extern nis_name nis_local_group();
75 extern nis_name nis_local_directory();
76 extern nis_name nis_local_host();

78 extern void nis_destroy_object();
79 extern nis_object *nis_clone_object();

81 extern nis_object *nis_read_obj();
82 extern int nis_write_obj();
83 extern void *nis_get_static_storage();
84 extern nis_name __nis_rpc_domain();

86 CLIENT *__nis_clnt_create();

88 #endif

64 #ifdef __cplusplus
65 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/rpcsvc/yp\_prot.h

1

```
*****
12775 Sat Aug 2 23:27:13 2014
new/usr/src/head/rpcsvc/yp_prot.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
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24 *
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30 /*      All Rights Reserved      */

32 /*
33  * Portions of this source code were derived from Berkeley 4.3 BSD
34  * under license from the Regents of the University of California.
35  */

37 #ifndef _RPCSVC_YP_PROT_H
38 #define _RPCSVC_YP_PROT_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"

40 #include <rpc/rpc.h>
41 #include <rpcsvc/ypclnt.h>
42 #include <ndbm.h>

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

48 /*
49  * This file contains symbols and structures defining the rpc protocol
50  * between the YP clients and the YP servers. The servers are the YP
51  * database servers, and the YP.
52  */

54 /*
55  * The following procedures are supported by the protocol:
56  *
57  * YPPROC_NULL() returns () takes nothing, returns nothing. This indicates
58  * that the yp server is alive.
59  */
```

new/usr/src/head/rpcsvc/yp\_prot.h

2

```
60 * YPPROC_DOMAIN (char *) returns (bool_t) TRUE. Indicates that the
61 * responding yp server does serve the named domain; FALSE indicates no
62 * support.
63 *
64 * YPPROC_DOMAIN_NONACK (char *) returns (TRUE) if the yp server does serve
65 * the named domain, otherwise does not return. Used in the broadcast case.
66 *
67 * YPPROC_MATCH (struct ypreq_key) returns (struct ypresp_val). Returns the
68 * right-hand value for a passed left-hand key, within a named map and
69 * domain.
70 *
71 * YPPROC_FIRST (struct ypreq_nokey) returns (struct ypresp_key_val).
72 * Returns the first key-value pair from a named domain and map.
73 *
74 * YPPROC_NEXT (struct ypreq_key) returns (struct ypresp_key_val). Returns
75 * the key-value pair following a passed key-value pair within a named
76 * domain and map.
77 *
78 * YPPROC_XFR (struct ypreq_xfr) returns nothing. Indicates to a server that
79 * a map should be updated.
80 *
81 * YPPROC_NEWXFR (struct ypreq_newxfr) returns nothing. Indicates to a server
82 * that a map should be updated. Uses protocol independent request struct.
83 *
84 * YPPROC_CLEAR takes nothing, returns nothing. Instructs a yp server to
85 * close the current map, so that old versions of the disk file don't get
86 * held open.
87 *
88 * YPPROC_ALL (struct ypreq_nokey), returns
89 *     union switch (bool more) {
90 *         TRUE: (struct ypresp_key_val);
91 *         FALSE: (struct) {};
92 *     }
93 *
94 * YPPROC_MASTER (struct ypreq_nokey), returns (ypresp_master)
95 *
96 * YPPROC_ORDER (struct ypreq_nokey), returns (ypresp_order)
97 *
98 * YPPROC_MAPLIST (char *), returns (struct ypmaplist *)
99 */

101 /* 'bool' is a built-in type for g++ */
102 #if !(defined(__cplusplus) && defined(_BOOL)) && !defined(__GNUG__)
103 #ifndef _BOOL_DEFINED
104 typedef unsigned int bool;
105 #define _BOOL_DEFINED
106 #endif
107 #endif

109 /* Program and version symbols, magic numbers */

111 #define YPPROG      ((rpcprog_t)100004)
112 #define YPVERS     ((rpcvers_t)2)
113 #define YPVERS_ORIG ((rpcvers_t)1)
114 #define YPMAXRECORD ((uint_t)1024)
115 #define YPMAXDOMAIN ((uint_t)256)
116 #define YPMAXMAP   ((uint_t)64)
117 #define YPMAXPEER  ((uint_t)256)

119 /* byte size of a large yp packet */
120 #define YPMSGSZ    1600

122 struct ypmap_parms {
123     char *domain;          /* Null string means not available */
124     char *map;            /* Null string means not available */
125     unsigned int ordernum; /* 0 means not available */
```

```

126     char *owner;                /* Null string means not available */
127 };
    unchanged_portion_omitted

```

```
341 /* Status values for yppushresp_xfr.status */
```

```

343 #define YPPUSH_SUCC      (1)    /* Success */
344 #define YPPUSH_AGE      (2)    /* Master's version not newer */
345 #define YPPUSH_NOMAP    (-1)   /* Can't find server for map */
346 #define YPPUSH_NODOM    (-2)   /* Domain not supported */
347 #define YPPUSH_RSRC     (-3)   /* Local resource alloc failure */
348 #define YPPUSH_RPC      (-4)   /* RPC failure talking to server */
349 #define YPPUSH_MADDR    (-5)   /* Can't get master address */
350 #define YPPUSH_YPERR    (-6)   /* YP server/map db error */
351 #define YPPUSH_BADARGS  (-7)   /* Request arguments bad */
352 #define YPPUSH_DBM      (-8)   /* Local dbm operation failed */
353 #define YPPUSH_FILE     (-9)   /* Local file I/O operation failed */
354 #define YPPUSH_SKEW     (-10)  /* Map version skew during transfer */
355 #define YPPUSH_CLEAR    (-11)  /* Can't send "Clear" req to local */
356                               /* ypserv */
357 #define YPPUSH_FORCE    (-12)  /* No local order number in map - */
358                               /* use -f flag. */
359 #define YPPUSH_XFRERR   (-13)  /* ypxfr error */
360 #define YPPUSH_REFUSED  (-14)  /* Transfer request refused by ypserv */
361 #define YPPUSH_NOALIAS  (-15)  /* Alias not found for map or domain */

```

```
363 #ifndef __STDC__
```

```

363 extern bool xdr_datum(XDR *, datum *);
364 extern bool xdr_ypdomain_wrap_string(XDR *, char **);
365 extern bool xdr_ypmap_wrap_string(XDR *, char **);
366 extern bool xdr_ypreq_key(XDR *, struct ypreq_key *);
367 extern bool xdr_ypreq_nokey(XDR *, struct ypreq_nokey *);
368 extern bool xdr_ypreq_xfr(XDR *, struct ypreq_xfr *);
369 extern bool xdr_ypreq_newxfr(XDR *, struct ypreq_newxfr *);
370 extern bool xdr_ypresp_val(XDR *, struct ypresp_val *);
371 extern bool xdr_ypresp_key_val(XDR *, struct ypresp_key_val *);
372 extern bool xdr_ypmap_parms(XDR *, struct ypmap_parms *);
373 extern bool xdr_ypowner_wrap_string(XDR *, char **);
374 extern bool xdr_yppushresp_xfr(XDR *, struct yppushresp_xfr *);
375 extern bool xdr_ypresp_order(XDR *, struct ypresp_order *);
376 extern bool xdr_ypresp_master(XDR *, struct ypresp_master *);
377 extern bool xdr_ypall(XDR *, struct ypall_callback *);
378 extern bool xdr_ypresp_maplist(XDR *, struct ypresp_maplist *);

```

```
381 #else
```

```

383 extern bool xdr_datum();
384 extern bool xdr_ypdomain_wrap_string();
385 extern bool xdr_ypmap_wrap_string();
386 extern bool xdr_ypreq_key();
387 extern bool xdr_ypreq_nokey();
388 extern bool xdr_ypreq_xfr();
389 extern bool xdr_ypreq_newxfr();
390 extern bool xdr_ypresp_val();
391 extern bool xdr_ypresp_key_val();
392 extern bool xdr_yp_inaddr();
393 extern bool xdr_ypmap_parms();
394 extern bool xdr_ypowner_wrap_string();
395 extern bool xdr_yppushresp_xfr();
396 extern bool xdr_ypresp_order();
397 extern bool xdr_ypresp_master();
398 extern bool xdr_ypall();
399 extern bool xdr_ypresp_maplist();
400 #endif /* __STDC__ */

```

```
380 #ifdef __cplusplus
```

```

381 }
    unchanged_portion_omitted

```

new/usr/src/head/rpcsvc/ypclnt.h

1

```
*****
3846 Sat Aug 2 23:27:13 2014
new/usr/src/head/rpcsvc/ypclnt.h
remove support for non-ANSI compilation
*****
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30 /*      All Rights Reserved      */

32 /*
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34  * under license from the Regents of the University of California.
35  */

37 #ifndef _RPCSVC_YPCLNT_H
38 #define _RPCSVC_YPCLNT_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"

40 #ifdef __cplusplus
41 extern "C" {
42 #endif

44 /*
45  * ypclnt.h
46  * This defines the symbols used in the c language
47  * interface to the yp client functions.  A description of this interface
48  * can be read in ypclnt(3N).
49  */

51 /*
52  * Failure reason codes.  The success condition is indicated by a functional
53  * value of "0".
54  */
55 #define YPERR_BADARGS 1      /* Args to function are bad */
56 #define YPERR_RPC 2      /* RPC failure */
57 #define YPERR_DOMAIN 3      /* Can't bind to a server which */
58                               /* serves this domain. */
59 #define YPERR_MAP 4      /* No such map in server's domain */
```

new/usr/src/head/rpcsvc/ypclnt.h

2

```
60 #define YPERR_KEY 5      /* No such key in map */
61 #define YPERR_YPERR 6      /* Internal yp server or client */
62                               /* interface error */
63 #define YPERR_RESRC 7      /* Local resource allocation failure */
64 #define YPERR_NOMORE 8      /* No more records in map database */
65 #define YPERR_PMAP 9      /* Can't communicate with portmapper */
66 #define YPERR_YPBIND 10      /* Can't communicate with ypbind */
67 #define YPERR_YPSEV 11      /* Can't communicate with ypserv */
68 #define YPERR_NODOM 12      /* Local domain name not set */
69 #define YPERR_BADDB 13      /* yp data base is bad */
70 #define YPERR_VERS 14      /* YP version mismatch */
71 #define YPERR_ACCESS 15      /* Access violation */
72 #define YPERR_BUSY 16      /* Database is busy */

74 /*
75  * Types of update operations
76  */
77 #define YPOP_CHANGE 1      /* change, do not add */
78 #define YPOP_INSERT 2      /* add, do not change */
79 #define YPOP_DELETE 3      /* delete this entry */
80 #define YPOP_STORE 4      /* add, or change */

84 /*
85  * Data definitions
86  */

88 /*
89  * struct ypall_callback * is the arg which must be passed to yp_all
90  */

92 struct ypall_callback {
93     int (*foreach)();      /* Return non-0 to stop getting */
94                               /* called */
95     char *data;      /* Opaque pointer for use of callback */
96                               /* function */
97 };

99 /*
100  * External yp client function references.
101  */

103 #ifdef __STDC__
103 extern int yp_bind(char *);
104 extern void yp_unbind(char *);
105 extern int yp_get_default_domain(char **);
106 extern int yp_match(char *, char *, char *, int, char **, int *);
107 extern int yp_first(char *, char *, char **, int *, char **, int *);
108 extern int yp_next(char *, char *, char **, int *, char **, int *);
109 extern int yp_master(char *, char *, char **);
110 extern int yp_order(char *, char *, unsigned long *);
111 extern int yp_all(char *, char *, struct ypall_callback *);
112 extern char *yperr_string(int);
113 extern int ypprot_err(int);
114 extern int yp_update(char *, char *, unsigned, char *, int, char *, int);

117 #else
119 extern int yp_bind();
120 extern int __yp_dobind();
121 extern void yp_unbind();
122 extern int yp_get_default_domain();
123 extern int yp_match();
124 extern int yp_first();
125 extern int yp_next();
```

```
126 extern int yp_master();
127 extern int yp_order();
128 extern int yp_all();
129 extern char *yperr_string();
130 extern int ypprot_err();
131 extern int yp_update();
132 #endif /* __STDC__ */
```

```
116 /*
117 * Global yp data structures
118 */
```

```
120 #ifdef __cplusplus
121 }
```

\_\_\_\_\_unchanged\_portion\_omitted\_

```
*****
```

```
5379 Sat Aug 2 23:27:13 2014
```

```
new/usr/src/head/rtld_db.h
```

```
remove support for non-ANSI compilation
```

```
*****
```

```
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20 */
21 /*
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26 */

28 #ifndef _RTLDB_H
29 #define _RTLDB_H

31 #pragma ident "%Z%M% %I% %E% SMI"

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

35 #include <sys/types.h>
36 #include <sys/lwp.h>
37 #include <sys/elf.h>
38 #include <link.h>
39 #include <proc_service.h>

42 /*
43 * librtld_db interface versions
44 */
45 #define RD_VERSION1 1
46 #define RD_VERSION2 2
47 #define RD_VERSION3 3
48 #define RD_VERSION4 4
49 #define RD_VERSION RD_VERSION4

51 typedef enum {
52   RD_ERR,          /* generic */
53   RD_OK,           /* generic "call" succeeded */
54   RD_NOCAPAB,     /* capability not available */
55   RD_DBERR,       /* import service failed */
56   RD_NOBASE,      /* 5.x: aux tag AT_BASE not found */
57   RD_NODYNAM,     /* symbol 'DYNAMIC' not found */
58   RD_NOMAPS,      /* link-maps are not yet available */

```

```
59 } rd_err_e;
    unchanged portion omitted

123 /*
124 * Values for rl_flags
125 */
126 #define RD_FLG_MEM_OBJECT      0x0001 /* Identifies this object as */
127                                     /* originating from a relocatable */
128                                     /* module which was dynamically */
129                                     /* loaded */

131 /*
132 * Commands for rd_ctl()
133 */
134 #define RD_CTL_SET_HELPPATH    0x01 /* Set the path used to find helpers */

136 typedef struct rd_agent rd_agent_t;
137 #ifdef __STDC__
138 typedef int rl_iter_f(const rd_loadobj_t *, void *);
139 #else
140 typedef int rl_iter_f();
141 #endif

142 #endif

140 /*
141 * PLT skipping
142 */
143 typedef enum {
144   RD_RESOLVE_NONE,          /* don't do anything special */
145   RD_RESOLVE_STEP,         /* step 'pi_nstep' instructions */
146   RD_RESOLVE_TARGET,       /* resolved target is in 'pi_target' */
147   RD_RESOLVE_TARGET_STEP   /* put a bpt on target, then step nstep times */
148 } rd_skip_e;
    unchanged portion omitted

160 /*
161 * Values for pi_flags
162 */
163 #define RD_FLG_PI_PLTBOUND    0x0001 /* Indicates that the PLT */
164                                     /* has been bound - and that */
165                                     /* pi_baddr will contain its */
166                                     /* destination address */

168 struct ps_prochandle;

170 /*
171 * librtld_db.so entry points
172 */
173 #ifdef __STDC__
174 extern void rd_delete(rd_agent_t *);
175 extern char *rd_errstr(rd_err_e rderr);
176 extern rd_event_addr(rd_agent_t *, rd_event_e, rd_notify_t *);
177 extern rd_event_enable(rd_agent_t *, int);
178 extern rd_event_getmsg(rd_agent_t *, rd_event_msg_t *);
179 extern rd_event_init(int);
180 extern rd_event_ctl(int, void *);
181 extern rd_event_loadobj_iter(rd_agent_t *, rl_iter_f *, void *);
182 extern void rd_log(const int);
183 extern rd_agent_t *rd_new(struct ps_prochandle *);
184 extern rd_err_e rd_objpad_enable(struct rd_agent *, size_t);
185 extern rd_err_e rd_plt_resolution(rd_agent_t *, psaddr_t, lwpid_t, psaddr_t, rd_plt_info_t *);
186 extern rd_err_e rd_get_dyns(rd_agent_t *, psaddr_t, void **, size_t *);
187 extern rd_err_e rd_reset(struct rd_agent *);

```

```
195 #else /* !__STDC__ */
196 extern void      rd_delete();
197 extern char      *rd_errstr();
198 extern rd_err_e  rd_event_addr();
199 extern rd_err_e  rd_event_enable();
200 extern rd_err_e  rd_event_getmsg();
201 extern rd_err_e  rd_init();
202 extern rd_err_e  rd_ctl();
203 extern rd_err_e  rd_loadobj_iter();
204 extern void      rd_log();
205 extern rd_agent_t *rd_new();
206 extern rd_err_e  rd_objpad_enable();
207 extern rd_err_e  rd_plt_resolution();
208 extern rd_err_e  rd_get_dyns();
209 extern rd_err_e  rd_reset();
210 #endif /* !__STDC__ */

190 #ifdef __cplusplus
191 }
_____unchanged_portion_omitted_____
```



new/usr/src/head/sac.h

1

```
*****
4497 Sat Aug 2 23:27:13 2014
new/usr/src/head/sac.h
remove support for non-ANSI compilation
*****
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20 * CDDL HEADER END
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22 /*
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26  * All rights reserved.
27  */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved */

33 #ifndef _SAC_H
34 #define _SAC_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.4 */

36 #include <sys/types.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 #define IDLEN      4      /* length in bytes of a utmp id */
43 #define SC_WILDC      0xff /* wild character for utmp ids */
44 #define PMTAGSIZE      14 /* maximum length in bytes for */
45                          /* a port monitor tag */

47 /*
48  * values for rflag in doconfig()
49  */

51 #define NOASSIGN      0x1 /* don't allow assign operations */
52 #define NORUN      0x2 /* don't allow run or runwait operations */

55 /*
56  * message to SAC (header only). This header is forever fixed. The
57  * size field (pm_size) defines the size of the data portion of the
58  * message, which follows the header. The form of this optional
59  * data portion is defined strictly by the message type (pm_type).
```

new/usr/src/head/sac.h

2

```
60 */

62 struct pmmsg {
63     char pm_type; /* type of message */
64     uchar_t pm_state; /* current state of port monitor */
65     char pm_maxclass; /* max message class this PM */
66     /* understands */
67     char pm_tag[PMTAGSIZE + 1]; /* port monitor's tag */
68     int pm_size; /* size of optional data portion */
69 };
    unchanged_portion_omitted

104 /*
105  * sc_type values
106  * These represent commands that the SAC sends to a port monitor. These
107  * commands are divided into "classes" for extensibility. Each subsequent
108  * "class" is a superset of the previous "classes" plus the new commands
109  * defined within that "class". The header for all commands is identical;
110  * however, a command may be defined such that an optional data portion may
111  * be sent in addition to the header. The format of this optional data piece
112  * is self-defining based on the command. Important note: the first message
113  * sent by the SAC will always be a class 1 message. The port monitor
114  * response will indicate the maximum class that it is able to understand.
115  * Another note is that port monitors should only respond to a message with
116  * an equivalent class response (i.e. a class 1 command causes a class 1
117  * response).
118  */

120 /*
121  * Class 1 commands (currently, there are only class 1 commands)
122  */

124 #define SC_STATUS      1      /* status request */
125 #define SC_ENABLE      2      /* enable request */
126 #define SC_DISABLE      3      /* disable request */
127 #define SC_READDB      4      /* read pmtab request */

129 /*
130  * 'errno' values for Saferno, note that Saferno is used by
131  * both pmadm and sacadm and these values are shared between
132  * them
133  */

135 #define E_BADARGS      1      /* bad args or ill-formed command line */
136 #define E_NOPRIV      2      /* user not privileged for operation */
137 #define E_SAFERR      3      /* generic SAF error */
138 #define E_SYSERR      4      /* system error */
139 #define E_NOEXIST      5      /* invalid specification */
140 #define E_DUP      6      /* entry already exists */
141 #define E_PMRUN      7      /* port monitor is running */
142 #define E_PMNOTRUN      8      /* port monitor is not running */
143 #define E_RECOVER      9      /* in recovery */
144 #define E_SACNOTRUN      10     /* sac daemon is not running */

146 #ifdef __STDC__
146 extern int doconfig(int, char *, long);
148 #else
149 extern int doconfig();
150 #endif

148 #ifdef __cplusplus
149 }
    unchanged_portion_omitted
```

```

*****
2116 Sat Aug 2 23:27:13 2014
new/usr/src/head/sched.h
remove support for non-ANSI compilation
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27 */

29 #ifndef _SCHED_H
30 #define _SCHED_H

32 #include <sys/types.h>
33 #include <time.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 struct sched_param {
40     int    sched_priority; /* scheduling priority */
41     int    sched_pad[8];
42 };

44 /*
45  * POSIX scheduling policies
46  */
47 #define SCHED_OTHER    0    /* traditional time-sharing scheduling class */
48 #define SCHED_FIFO    1    /* real-time class: run to completion */
49 #define SCHED_RR      2    /* real-time class: round-robin */
50 #define SCHED_SYS     3    /* system scheduling class */
51 #define SCHED_IA      4    /* interactive time-sharing class */
52 #define SCHED_FSS     5    /* fair-share scheduling class */
53 #define SCHED_FX      6    /* fixed-priority scheduling class */
54 #define _SCHED_NEXT   7    /* first unassigned policy number */

56 /*
57  * function prototypes
58  */
59 #if defined(__STDC__)

```

```

59 int    sched_getparam(pid_t, struct sched_param *);
60 int    sched_setparam(pid_t, const struct sched_param *);
61 int    sched_getscheduler(pid_t);
62 int    sched_setscheduler(pid_t, int, const struct sched_param *);
63 int    sched_yield(void);
64 int    sched_get_priority_max(int);
65 int    sched_get_priority_min(int);
66 int    sched_rr_get_interval(pid_t, struct timespec *);
68 #else
69 int    sched_getparam();
70 int    sched_setparam();
71 int    sched_getscheduler();
72 int    sched_setscheduler();
73 int    sched_yield();
74 int    sched_get_priority_max();
75 int    sched_get_priority_min();
76 int    sched_rr_get_interval();
77 #endif /* __STDC__ */

68 #ifdef __cplusplus
69 }
_____unchanged_portion_omitted_

```

```

*****
1631 Sat Aug 2 23:27:13 2014
new/usr/src/head/schedctl.h
remove support for non-ANSI compilation
*****
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27 */

29 #ifndef _SCHEDCTL_H
30 #define _SCHEDCTL_H

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 #include <sys/schedctl.h>

38 typedef sc_public_t schedctl_t;

40 extern void yield(void);

42 #define schedctl_start(p) \
43     (void) (((p) == NULL)? 0 : \
44     (((schedctl_t *) (p))->sc_nopreempt = 1), 0)

46 #define schedctl_stop(p) \
47     (void) (((p) == NULL)? 0 : \
48     (((schedctl_t *) (p))->sc_nopreempt = 0), \
49     (((schedctl_t *) (p))->sc_yield? (yield(), 0) : 0))

51 /*
52 * libsched API
53 */
54 #if defined(__STDC__)
54 schedctl_t *schedctl_init(void);
55 schedctl_t *schedctl_lookup(void);
56 void schedctl_exit(void);
58 #else
59 schedctl_t *schedctl_init();

```

```

60 schedctl_t *schedctl_lookup();
61 void schedctl_exit();
62 #endif /* __STDC__ */

58 #ifdef __cplusplus
59 }

```

unchanged\_portion\_omitted

new/usr/src/head/search.h

1

```
*****
2607 Sat Aug 2 23:27:13 2014
new/usr/src/head/search.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
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30  */

32 #ifndef _SEARCH_H
33 #define _SEARCH_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3.1.11 */

35 #include <sys/feature_tests.h>
36 #include <sys/types.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /* HSEARCH(3C) */
43 typedef enum { FIND, ENTER } ACTION;

45 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE)
46 struct qelem {
47     struct qelem      *q_forw;
48     struct qelem      *q_back;
49 };
50 #endif /* defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) */

52 typedef struct entry { char *key, *data; } ENTRY;

55 #if defined(__STDC__)

54 int hcreate(size_t);
55 void hdestroy(void);
56 ENTRY *hsearch(ENTRY, ACTION);
```

new/usr/src/head/search.h

2

```
57 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) || defined(_XPG4_2)
58 void insque(void *, void *);
59 void remque(void *);
60 #endif

65 #else /* defined(__STDC__) */

67 int hcreate();
68 void hdestroy();
69 ENTRY *hsearch();
70 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) || defined(_XPG4_2)
71 void insque();
72 void remque();
73 #endif

75 #endif /* defined(__STDC__) */

63 /* TSEARCH(3C) */
64 typedef enum { preorder, postorder, endorder, leaf } VISIT;

80 #if defined(__STDC__)
66 void *tdelete(const void * RESTRICT_KYWD, void ** RESTRICT_KYWD,
67              int (*)(const void *, const void *));
68 void *tfind(const void *, void *const *, int (*)(const void *, const void *));
69 void *tsearch(const void *, void **, int (*)(const void *, const void *));
70 void twalk(const void *, void (*)(const void *, VISIT, int));
86 #else
87 void *tdelete();
88 void *tfind();
89 void *tsearch();
90 void twalk();
91 #endif

93 #if defined(__STDC__)

73 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE)
74 /* BSEARCH(3C) */
75 void *bsearch(const void *, const void *, size_t, size_t,
76              int (*)(const void *, const void *));
77 #endif /* defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE) */

79 /* LSEARCH(3C) */
80 void *lfind(const void *, const void *, size_t *, size_t,
81            int (*)(const void *, const void *));
82 void *lsearch(const void *, void *, size_t *, size_t,
83              int (*)(const void *, const void *));
106 #else
107 void *bsearch();
108 void *lfind();
109 void *lsearch();
110 #endif

85 #ifdef __cplusplus
86 }
      unchanged_portion_omitted
```

```

*****
2448 Sat Aug 2 23:27:13 2014
new/usr/src/head/semaphore.h
remove support for non-ANSI compilation
*****
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21 */
22 /*
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27 */

29 #ifndef _SEMAPHORE_H
30 #define _SEMAPHORE_H

32 #include <sys/feature_tests.h>

34 #include <sys/types.h>
35 #include <sys/fcntl.h>

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 typedef struct {
42     /* this structure must be the same as sema_t in <synch.h> */
43     uint32_t    sem_count;    /* semaphore count */
44     uint16_t    sem_type;
45     uint16_t    sem_magic;
46     upad64_t    sem_pad1[3]; /* reserved for a mutex_t */
47     upad64_t    sem_pad2[2]; /* reserved for a cond_t */
48 } sem_t;

50 #define SEM_FAILED    ((sem_t *)(-1))

52 /*
53 * function prototypes
54 */
55 #if defined(__STDC__)
56 int    sem_init(sem_t *, int, unsigned int);
57 int    sem_destroy(sem_t *);
58 sem_t *sem_open(const char *, int, ...);
59 int    sem_close(sem_t *);

```

```

59 int    sem_unlink(const char *);
60 int    sem_wait(sem_t *);
61 /*
62 * Inclusion of <time.h> breaks X/Open and POSIX namespace.
63 * The timespec structure while allowed in XPG6 and POSIX.1003d-1999,
64 * is not permitted in prior POSIX or X/Open specifications even
65 * though functions beginning with sem_* are allowed.
66 */
67 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
68 struct timespec;
69 int    sem_timedwait(sem_t * _RESTRICT_KYWD,
70                    const struct timespec * _RESTRICT_KYWD);
71 int    sem_reltimedwait_np(sem_t * _RESTRICT_KYWD,
72                           const struct timespec * _RESTRICT_KYWD);
73 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) ... */
74 int    sem_trywait(sem_t *);
75 int    sem_post(sem_t *);
76 int    sem_getvalue(sem_t * _RESTRICT_KYWD, int * _RESTRICT_KYWD);
77 #else
78 #endif
79 int    sem_init();
80 int    sem_destroy();
81 sem_t *sem_open();
82 int    sem_close();
83 int    sem_unlink();
84 int    sem_wait();
85 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
86 int    sem_timedwait();
87 int    sem_reltimedwait_np();
88 #endif /* #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) ... */
89 int    sem_trywait();
90 int    sem_post();
91 int    sem_getvalue();
92 #endif /* __STDC__ */

78 #ifdef __cplusplus
79 }

```

unchanged\_portion\_omitted

new/usr/src/head/setjmp.h

1

```
*****
1806 Sat Aug 2 23:27:14 2014
new/usr/src/head/setjmp.h
remove support for non-ANSI compilation
*****
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30 */

32 #ifndef _SETJMP_H
33 #define _SETJMP_H

35 #include <iso/setjmp_iso.h>

37 /*
38 * Allow global visibility for symbols defined in
39 * C++ "std" namespace in <iso/setjmp_iso.h>.
40 */
41 #if __cplusplus >= 199711L
42 using std::jmp_buf;
43 using std::longjmp;
44 #endif

46 #ifdef __cplusplus
47 extern "C" {
48 #endif

49 #if defined(__STDC__)

50 #if !defined(_STRICT_STDC) || defined(__XOPEN_OR_POSIX) || \
51     defined(__EXTENSIONS__)
52 /* non-ANSI standard compilation */

54 #if defined(_LP64) || defined(_I32LPx)
55 typedef long sigjmp_buf[_SIGJBLEN];
56 #else
57 typedef int sigjmp_buf[_SIGJBLEN];
58 #endif
```

new/usr/src/head/setjmp.h

2

```
60 extern int sigsetjmp(sigjmp_buf, int) __RETURNS_TWICE;
61 #pragma unknown_control_flow(sigsetjmp)
62 extern void siglongjmp(sigjmp_buf, int) __NORETURN;
63 #endif

66 #else /* __STDC__ */

68 #if defined(_LP64) || defined(_I32LPx)
69 typedef long sigjmp_buf[_SIGJBLEN];
70 #else
71 typedef int sigjmp_buf[_SIGJBLEN];
72 #endif

74 extern int sigsetjmp() __RETURNS_TWICE;
75 #pragma unknown_control_flow(sigsetjmp)
76 extern void siglongjmp();

78 #endif /* __STDC__ */

65 #ifdef __cplusplus
66 }
    unchanged_portion_omitted
```

new/usr/src/head/shadow.h

1

```
*****
3229 Sat Aug 2 23:27:14 2014
new/usr/src/head/shadow.h
remove support for non-ANSI compilation
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32 #ifndef _SHADOW_H
33 #define _SHADOW_H

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 #define PASSWD      "/etc/passwd"
41 #define SHADOW      "/etc/shadow"
42 #define OPASSWD     "/etc/opasswd"
43 #define OSHADOW     "/etc/oshadow"
44 #define PASSTEMP    "/etc/ptmp"
45 #define SHADTEMP    "/etc/stmp"

47 #define DAY          (24L * 60 * 60) /* 1 day in seconds */
48 #define DAY_NOW      (time_t)time((time_t *)0) / DAY
49 /* The above timezone variable is set by a call to */
50 /* any ctime(3c) routine. Programs using the DAY_NOW */
51 /* macro must call one of the ctime routines, */
52 /* e.g. tzset(), BEFORE referencing DAY_NOW */

54 #define LOCKSTRING   "**LK**" /* prefix to/string in sp_pwdp to lock acct */
55 #define NOLOGINSTRING "NP" /* sp_pwdp for no-login accounts */
56 #define NOPWDRTR     "**NP**" /* password is not retrievable */
57 /*
58 * The spwd structure is used in the retrieval of information from
59 * /etc/shadow. It is used by routines in the libos library.
60 */
61 struct spwd {
```

new/usr/src/head/shadow.h

2

```
62     char *sp_namp; /* user name */
63     char *sp_pwdp; /* user password */
64     int sp_lstchg; /* password lastchanged date */
65     int sp_min; /* minimum number of days between password changes */
66     int sp_max; /* number of days password is valid */
67     int sp_warn; /* number of days to warn user to change passwd */
68     int sp_inact; /* number of days the login may be inactive */
69     int sp_expire; /* date when the login is no longer valid */
70     unsigned int sp_flag; /* currently low 4 bits are used */

72     /* low 4 bits of sp_flag for counting failed login attempts */
73 #define FAILCOUNT_MASK 0xF
74 };

74 #if defined(__STDC__)

76 #ifndef _STDIO_H
77 #include <stdio.h>
78 #endif

80 /* Declare all shadow password functions */

82 extern struct spwd *getspnam_r(const char *, struct spwd *, char *, int);
83 extern struct spwd *getspent_r(struct spwd *, char *, int);
84 extern struct spwd *fgetspent_r(FILE *, struct spwd *, char *, int);

86 extern void      setspent(void);
87 extern void      endspent(void);
88 extern struct spwd *getspent(void); /* MT-unsafe */
89 extern struct spwd *fgetspent(FILE *); /* MT-unsafe */
90 extern struct spwd *getspnam(const char *); /* MT-unsafe */

92 extern int      putspent(const struct spwd *, FILE *);
93 extern int      lckpword(void);
94 extern int      ulckpword(void);

96 #else

98 /* Declare all shadow password functions */

100 struct spwd      *getspent_r(), *fgetspent_r(), *getspnam_r();
101 void              setspent(), endspent();
102 struct spwd      *getspent(), *fgetspent(), *getspnam(); /* MT-unsafe */
103 int               putspent(), lckpword(), ulckpword();

105 #endif

96 #ifdef __cplusplus
97 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/siginfo.h

1

```
*****
1602 Sat Aug 2 23:27:14 2014
new/usr/src/head/siginfo.h
remove support for non-ANSI compilation
*****
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21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

28 #ifndef _SIGINFO_H
29 #define _SIGINFO_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.1 */

31 #include <sys/types.h>
32 #include <sys/siginfo.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 struct siginfolist {
39     int nsiginfo;
40     char **vsiginfo;
41 };

43 #ifdef __STDC__
44 extern const char * _sys_illlist[];
45 extern const char * _sys_fpelist[];
46 extern const char * _sys_segvlst[];
47 extern const char * _sys_buslist[];
48 extern const char * _sys_traplist[];
49 extern const char * _sys_cldlist[];
50 extern const struct siginfolist * _sys_siginfolistp;
51 #define _sys_siginfolist      _sys_siginfolistp
52 #else
53 extern char * _sys_illlist[];
54 extern char * _sys_fpelist[];
55 extern char * _sys_segvlst[];
56 extern char * _sys_buslist[];
57 extern char * _sys_traplist[];
58 extern char * _sys_cldlist[];
```

new/usr/src/head/siginfo.h

2

```
59 extern struct siginfolist * _sys_siginfolistp;
60 #define _sys_siginfolist      _sys_siginfolistp
61 #endif

63 #if defined(__STDC__)

52 extern void psignal(int, const char *);
53 extern void psiginfo(siginfo_t *, char *);

68 #else

70 extern void psignal();
71 extern void psiginfo();

73 #endif

55 #ifdef __cplusplus
56 }
    unchanged_portion_omitted
```



new/usr/src/head/signal.h

1

```
*****
5469 Sat Aug 2 23:27:14 2014
new/usr/src/head/signal.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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23 /*      All Rights Reserved      */

25 /*
26  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27  *
28  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
29  * Use is subject to license terms.
30  */

32 #ifndef _SIGNAL_H
33 #define _SIGNAL_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.5.3.4 */

35 #include <sys/feature_tests.h>

37 #if defined(__EXTENSIONS__) || !defined(_STRICT_STDC) || \
38     defined(__XOPEN_OR_POSIX)
39 #include <sys/types.h> /* need pid_t/uid_t/size_t/clock_t/caddr_t/pthread_t */
40 #endif

42 #include <iso/signal_iso.h>
43 #include <sys/signal.h>

45 /*
46  * Allow global visibility for symbols defined in
47  * C++ "std" namespace in <iso/signal_iso.h>.
48  */
49 #if __cplusplus >= 199711L
50 using std::sig_atomic_t;
51 using std::signal;
52 using std::raise;
53 #endif

55 #ifdef __cplusplus
56 extern "C" {
57 #endif
```

new/usr/src/head/signal.h

2

```
61 #if defined(__STDC__)

62 extern const char      **_sys_siglistp;      /* signal descriptions */
63 extern const int       _sys_siglistn;      /* # of signal descriptions */

64 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
65 #define _sys_siglist      _sys_siglistp
66 #define _sys_nsig        _sys_siglistn
67 #endif

68 #if defined(__EXTENSIONS__) || !defined(_STRICT_STDC) || \
69     defined(__XOPEN_OR_POSIX)
70 extern int kill(pid_t, int);
71 extern int sigaction(int, const struct sigaction *_RESTRICT_KYWD,
72     struct sigaction *_RESTRICT_KYWD);
73 #ifndef _KERNEL
74 extern int sigaddset(sigset_t *, int);
75 extern int sigdelset(sigset_t *, int);
76 extern int sigemptyset(sigset_t *);
77 extern int sigfillset(sigset_t *);
78 extern int sigismember(const sigset_t *, int);
79 #endif
80 extern int sigpending(sigset_t *);
81 extern int sigprocmask(int, const sigset_t *_RESTRICT_KYWD,
82     sigset_t *_RESTRICT_KYWD);
83 extern int sigsuspend(const sigset_t *);
84 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC)... */

86 #if defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) && \
87     !defined(__XOPEN_OR_POSIX))
88 #include <sys/procset.h>
89 extern int gsignal(int);
90 extern int (*ssignal(int, int (*)(int)))(int);
91 extern int sigsend(idtype_t, id_t, int);
92 extern int sigsendset(const procset_t *, int);
93 extern int sig2str(int, char *);
94 extern int str2sig(const char *, int *);
95 #define SIG2STR_MAX      32
96 #endif /* defined(__EXTENSIONS__) || (!defined(_STRICT_STDC)... */

98 #if defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) && \
99     !defined(__XOPEN_OR_POSIX)) || defined(_XPG4_2)
100 extern void (*bsd_signal(int, void (*)(int)))(int);
101 extern int killpg(pid_t, int);
102 extern int siginterrupt(int, int);
103 extern int sigaltstack(const stack_t *_RESTRICT_KYWD, stack_t *_RESTRICT_KYWD);
104 extern int sighold(int);
105 extern int sigignore(int);
106 extern int sigpause(int);
107 extern int sigrelse(int);
108 extern void (*sigset(int, void (*)(int)))(int);
109 #endif /* defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) && ... */

111 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
112 #if defined(__EXTENSIONS__) || \
113     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
114     (defined(_XPG4_2) && !defined(_XPG6))
115 extern int sigstack(struct sigstack *, struct sigstack *);
116 #endif

118 #if defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) && \
119     !defined(__XOPEN_OR_POSIX)) || (_POSIX_C_SOURCE > 2)
120 #include <sys/siginfo.h>
121 #include <time.h>
122 extern int pthread_kill(pthread_t, int);
```

```

123 extern int pthread_sigmask(int, const sigset_t *_RESTRICT_KYWD,
124     sigset_t *_RESTRICT_KYWD);
125 extern int sigwaitinfo(const sigset_t *_RESTRICT_KYWD,
126     siginfo_t *_RESTRICT_KYWD);
127 extern int sigtimedwait(const sigset_t *_RESTRICT_KYWD,
128     siginfo_t *_RESTRICT_KYWD, const struct timespec *_RESTRICT_KYWD);
129 extern int sigqueue(pid_t, int, const union sigval);
130 #endif /* defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) && */

135 #else /* __STDC__ */

137 extern char    **_sys_siglistp;    /* signal descriptions */
138 extern int     _sys_siglistn;     /* # of signal descriptions */

140 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
141 #define _sys_siglist    _sys_siglistp
142 #define _sys_nsig      _sys_siglistn
143 #endif

145 #if defined(__EXTENSIONS__) || defined(__XOPEN_OR_POSIX)
146 extern int kill();
147 extern int sigaction();
148 #ifndef _KERNEL
149 extern int sigaddset();
150 extern int sigdelset();
151 extern int sigemptyset();
152 extern int sigfillset();
153 extern int sigismember();
154 #endif
155 extern int sigpending();
156 extern int sigprocmask();
157 extern int sigsuspend();
158 #endif /* defined(__EXTENSIONS__)... */

160 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
161     defined(_XPG4_2)
162 extern void (*bsd_signal())();
163 extern int killpg();
164 extern int siginterrupt();
165 #endif /* defined(__EXTENSIONS__) ... */

167 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
168     (defined(_XPG4_2) && !defined(_XPG6))
169 extern int sigstack();
170 #endif

172 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
173 extern int gsignal();
174 extern int (*ssignal)();
175 extern int sigsend();
176 extern int sigsendset();
177 extern int sig2str();
178 extern int str2sig();
179 #define SIG2STR_MAX    32
180 #endif

182 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
183     defined(_XPG4_2)
184 extern int sigaltstack();
185 extern int sighold();
186 extern int sigignore();
187 extern int sigpause();
188 extern int sigrelse();
189 extern void (*sigset())();
190 #endif

```

```

192 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
193     (_POSIX_C_SOURCE > 2)
194 #include <sys/siginfo.h>
195 #include <sys/time.h>
196 extern int pthread_kill();
197 extern int pthread_sigmask();
198 extern int sigwaitinfo();
199 extern int sigtimedwait();
200 extern int sigqueue();
201 #endif

203 #endif /* __STDC__ */

132 /*
133  * sigwait() prototype is defined here.
134  */

136 #if     defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) && \
137     !defined(__XOPEN_OR_POSIX)) || (_POSIX_C_SOURCE - 0 >= 199506L) || \
138     defined(_POSIX_PTHREAD_SEMANTICS)

213 #if     defined(__STDC__)

140 #if     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

142 #ifdef __PRAGMA_REDEFINE_EXTNAME
143 #pragma redefine_extname sigwait __posix_sigwait
144 extern int sigwait(const sigset_t *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
145 #else /* __PRAGMA_REDEFINE_EXTNAME */

147 extern int __posix_sigwait(const sigset_t *_RESTRICT_KYWD,
148     int *_RESTRICT_KYWD);

150 #ifdef __lint
151 #define sigwait __posix_sigwait
152 #else /* !_lint */

154 static int
155 sigwait(const sigset_t *_RESTRICT_KYWD __setp, int *_RESTRICT_KYWD __signo)
156 {
157     return (__posix_sigwait(__setp, __signo));
158 }

160 #endif /* !_lint */
161 #endif /* __PRAGMA_REDEFINE_EXTNAME */

163 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

165 extern int sigwait(sigset_t *);

167 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

245 #else /* __STDC__ */

248 #if     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)

250 #ifdef __PRAGMA_REDEFINE_EXTNAME
251 #pragma redefine_extname sigwait __posix_sigwait
252 extern int sigwait();
253 #else /* __PRAGMA_REDEFINE_EXTNAME */

255 extern int __posix_sigwait();

257 #ifdef __lint

```

```
258 #define sigwait __posix_sigwait
259 #else /* !__lint */

261 static int
262 sigwait(__setp, __signo)
263     sigset_t *__setp;
264     int *__signo;
265 {
266     return (__posix_sigwait(__setp, __signo));
267 }

269 #endif /* !__lint */
270 #endif /* __PRAGMA_REDEFINE_EXTNAME */

272 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

274 extern int sigwait();

276 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

278 #endif /* __STDC__ */

169 #endif /* defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) ... */

171 #ifdef __cplusplus
172 }
_____unchanged_portion_omitted_
```

new/usr/src/head/spawn.h

1

```
*****
5448 Sat Aug 2 23:27:14 2014
new/usr/src/head/spawn.h
remove support for non-ANSI compilation
*****
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25  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27 */
29 /*
30  * Copyright (c) 2011 by Delphix. All rights reserved.
31 */
33 #ifndef _SPAWN_H
34 #define _SPAWN_H
36 #include <sys/feature_tests.h>
37 #include <sys/types.h>
38 #include <signal.h>
39 #include <sched.h>
41 #ifdef __cplusplus
42 extern "C" {
43 #endif
45 /*
46  * flags for posix_spawnattr_setflags()
47 */
48 #define POSIX_SPAWN_RESETIDS      0x0001
49 #define POSIX_SPAWN_SETPGROUP    0x0002
50 #define POSIX_SPAWN_SETSIGDEF    0x0004
51 #define POSIX_SPAWN_SETSIGMASK   0x0008
52 #define POSIX_SPAWN_SETSCHEDPARAM 0x0010
53 #define POSIX_SPAWN_SETSCHEDULER 0x0020
54 /*
55  * non-portable Solaris extensions
56 */
57 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
58 #define POSIX_SPAWN_SETSIGIGN_NP 0x0800
59 #define POSIX_SPAWN_NOSIGCHLD_NP 0x1000
60 #define POSIX_SPAWN_WAITPID_NP  0x2000
61 #define POSIX_SPAWN_NOEXECERR_NP 0x4000
```

new/usr/src/head/spawn.h

2

```
62 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
64 typedef struct {
65     void *_spawn_attrp; /* implementation-private */
66 } posix_spawnattr_t;
67 unchanged portion omitted
68 #if defined(__STDC__)
70 extern int posix_spawn(
71     pid_t *_RESTRICT_KYWD pid,
72     const char *_RESTRICT_KYWD path,
73     const posix_spawn_file_actions_t *file_actions,
74     const posix_spawnattr_t *_RESTRICT_KYWD attrp,
75     char *const argv[_RESTRICT_KYWD],
76     char *const envp[_RESTRICT_KYWD]);
77
78 extern int posix_spawnp(
79     pid_t *_RESTRICT_KYWD pid,
80     const char *_RESTRICT_KYWD file,
81     const posix_spawn_file_actions_t *file_actions,
82     const posix_spawnattr_t *_RESTRICT_KYWD attrp,
83     char *const argv[_RESTRICT_KYWD],
84     char *const envp[_RESTRICT_KYWD]);
85
86 extern int posix_spawn_file_actions_init(
87     posix_spawn_file_actions_t *file_actions);
88
89 extern int posix_spawn_file_actions_destroy(
90     posix_spawn_file_actions_t *file_actions);
91
92 extern int posix_spawn_file_actions_addopen(
93     posix_spawn_file_actions_t *_RESTRICT_KYWD file_actions,
94     int filedes,
95     const char *_RESTRICT_KYWD path,
96     int oflag,
97     mode_t mode);
98
99 extern int posix_spawn_file_actions_addclose(
100     posix_spawn_file_actions_t *file_actions,
101     int filedes);
102
103 extern int posix_spawn_file_actions_adddup2(
104     posix_spawn_file_actions_t *file_actions,
105     int filedes,
106     int newfiledes);
107
108 extern int posix_spawnattr_init(
109     posix_spawnattr_t *attr);
110
111 extern int posix_spawnattr_destroy(
112     posix_spawnattr_t *attr);
113
114 extern int posix_spawnattr_setflags(
115     posix_spawnattr_t *attr,
116     short flags);
117
118 extern int posix_spawnattr_getflags(
119     const posix_spawnattr_t *_RESTRICT_KYWD attr,
120     short *_RESTRICT_KYWD flags);
121
122 extern int posix_spawnattr_setpgroup(
123     posix_spawnattr_t *attr,
124     pid_t pgroup);
125
126 extern int posix_spawnattr_getpgroup(
```

```

129     const posix_spawnattr_t *_RESTRICT_KYWD attr,
130     pid_t *_RESTRICT_KYWD pgroup);

132 extern int posix_spawnattr_setschedparam(
133     posix_spawnattr_t *_RESTRICT_KYWD attr,
134     const struct sched_param *_RESTRICT_KYWD schedparam);

136 extern int posix_spawnattr_getschedparam(
137     const posix_spawnattr_t *_RESTRICT_KYWD attr,
138     struct sched_param *_RESTRICT_KYWD schedparam);

140 extern int posix_spawnattr_setschedpolicy(
141     posix_spawnattr_t *attr,
142     int schedpolicy);

144 extern int posix_spawnattr_getschedpolicy(
145     const posix_spawnattr_t *_RESTRICT_KYWD attr,
146     int *_RESTRICT_KYWD schedpolicy);

148 extern int posix_spawnattr_setsigdefault(
149     posix_spawnattr_t *_RESTRICT_KYWD attr,
150     const sigset_t *_RESTRICT_KYWD sigdefault);

152 extern int posix_spawnattr_getsigdefault(
153     const posix_spawnattr_t *_RESTRICT_KYWD attr,
154     sigset_t *_RESTRICT_KYWD sigdefault);

156 /*
157  * non-portable Solaris extensions
158  */
159 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

161 extern int posix_spawn_pipe_np(
162     pid_t *_RESTRICT_KYWD pidp,
163     int *_RESTRICT_KYWD fdp,
164     const char *_RESTRICT_KYWD cmd,
165     boolean_t write,
166     posix_spawn_file_actions_t *_RESTRICT_KYWD fact,
167     posix_spawnattr_t *_RESTRICT_KYWD attr);

169 extern int posix_spawn_file_actions_addclosefrom_np(
170     posix_spawn_file_actions_t *file_actions,
171     int lowfiledes);

173 extern int posix_spawnattr_setsigignore_np(
174     posix_spawnattr_t *_RESTRICT_KYWD attr,
175     const sigset_t *_RESTRICT_KYWD sigignore);

177 extern int posix_spawnattr_getsigignore_np(
178     const posix_spawnattr_t *_RESTRICT_KYWD attr,
179     sigset_t *_RESTRICT_KYWD sigignore);

181 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

183 extern int posix_spawnattr_setsigmask(
184     posix_spawnattr_t *_RESTRICT_KYWD attr,
185     const sigset_t *_RESTRICT_KYWD sigmask);

187 extern int posix_spawnattr_getsigmask(
188     const posix_spawnattr_t *_RESTRICT_KYWD attr,
189     sigset_t *_RESTRICT_KYWD sigmask);

191 #else /* __STDC__ */

193 extern int posix_spawn();
194 extern int posix_spawnp();

```

```

195 extern int posix_spawn_file_actions_init();
196 extern int posix_spawn_file_actions_destroy();
197 extern int posix_spawn_file_actions_addopen();
198 extern int posix_spawn_file_actions_addclose();
199 extern int posix_spawn_file_actions_adddup2();
200 extern int posix_spawnattr_init();
201 extern int posix_spawnattr_destroy();
202 extern int posix_spawnattr_setflags();
203 extern int posix_spawnattr_getflags();
204 extern int posix_spawnattr_setpgroup();
205 extern int posix_spawnattr_getpgroup();
206 extern int posix_spawnattr_setschedparam();
207 extern int posix_spawnattr_getschedparam();
208 extern int posix_spawnattr_setschedpolicy();
209 extern int posix_spawnattr_getschedpolicy();
210 extern int posix_spawnattr_setsigdefault();
211 extern int posix_spawnattr_getsigdefault();
212 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
213 extern int posix_spawn_pipe_np();
214 extern int posix_spawn_file_actions_addclosefrom_np();
215 extern int posix_spawnattr_setsigignore_np();
216 extern int posix_spawnattr_getsigignore_np();
217 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
218 extern int posix_spawnattr_setsigmask();
219 extern int posix_spawnattr_getsigmask();

221 #endif /* __STDC__ */

191 #ifdef __cplusplus
192 }
    unchanged_portion_omitted

```

new/usr/src/head/stdarg.h

1

```
*****
1855 Sat Aug 2 23:27:14 2014
new/usr/src/head/stdarg.h
remove support for non-ANSI compilation
*****
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30 */

32 #ifndef _STDARG_H
33 #define _STDARG_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.8 */

35 /*
36 * This header defines the ISO C 1989, ISO C++ 1998, and ISO C 1999
37 * variable argument definitions. For legacy support, it also defines
38 * the pre-standard variable argument definitions.
39 *
40 * The varargs definitions within this header are defined in terms of
41 * implementation definitions. These implementation definitions reside
42 * in <sys/va_list.h>. This organization enables protected use of
43 * the implementation by other standard headers without introducing
44 * names into the users' namespace.
45 */

48 #if defined(__STDC__)

47 #include <iso/stdarg_iso.h>
48 #include <iso/stdarg_c99.h>

50 /*
51 * Allow global visibility for symbols defined in
52 * C++ "std" namespace in <iso/stdarg_iso.h>.
53 */
54 #if __cplusplus >= 199711L
55 using std::va_list;
56 #endif
```

new/usr/src/head/stdarg.h

2

```
61 #else /* __STDC__ */
63 #include <varargs.h>
65 #endif /* __STDC__ */
58 #endif /* _STDARG_H */
```

```

*****
10770 Sat Aug  2 23:27:14 2014
new/usr/src/head/stdio.h
remove support for non-ANSI compilation
*****
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25 */

27 /*      Copyright (c) 1988 AT&T */
28 /*      All Rights Reserved      */

30 /*
31 * User-visible pieces of the ANSI C standard I/O package.
32 */

34 #ifndef _STDIO_H
35 #define _STDIO_H

37 #include <sys/feature_tests.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 /*
44 * Do all of our 'redefine_extname' processing before
45 * declarations of the associated functions are seen.
46 * This is necessary to keep gcc happy.
47 */
48 #if defined(__PRAGMA_REDEFINE_EXTNAME)

50 /* large file compilation environment setup */
51 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
52 #pragma redefine_extname      fopen      fopen64
53 #pragma redefine_extname      freopen    freopen64
54 #pragma redefine_extname      tmpfile    tmpfile64
55 #pragma redefine_extname      fgetpos    fgetpos64
56 #pragma redefine_extname      fsetpos    fsetpos64
57 #if defined(_LARGEFILE_SOURCE)
58 #pragma redefine_extname      fseeko     fseeko64
59 #pragma redefine_extname      ftello     ftello64
60 #endif /* _LARGEFILE_SOURCE */
61 #endif /* !defined(_LP64) && _FILE_OFFSET_BITS == 64 */

```

```

63 /* In the LP64 compilation environment, all APIs are already large file */
64 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
65 #pragma redefine_extname      fopen64      fopen
66 #pragma redefine_extname      freopen64     freopen
67 #pragma redefine_extname      tmpfile64    tmpfile
68 #pragma redefine_extname      fgetpos64    fgetpos
69 #pragma redefine_extname      fsetpos64    fsetpos
70 #if defined(_LARGEFILE_SOURCE)
71 #pragma redefine_extname      fseeko64     fseeko
72 #pragma redefine_extname      ftello64    ftello
73 #endif /* _LARGEFILE_SOURCE */
74 #endif /* defined(_LP64) && defined(_LARGEFILE64_SOURCE) */

76 #endif /* __PRAGMA_REDEFINE_EXTNAME */

78 #ifdef __cplusplus
79 }
80 #endif

82 #include <iso/stdio_iso.h>

84 /*
85 * If feature test macros are set that enable interfaces that use types
86 * defined in <sys/types.h>, get those types by doing the include.
87 *
88 * Note that in asking for the interfaces associated with this feature test
89 * macro one also asks for definitions of the POSIX types.
90 */

92 /*
93 * Allow global visibility for symbols defined in
94 * C++ "std" namespace in <iso/stdio_iso.h>.
95 */
96 #if __cplusplus >= 199711L
97 using std::FILE;
98 using std::size_t;
99 using std::fpos_t;
100 using std::remove;
101 using std::rename;
102 using std::tmpfile;
103 using std::tmpnam;
104 using std::fclose;
105 using std::fflush;
106 using std::fopen;
107 using std::freopen;
108 using std::setbuf;
109 using std::setvbuf;
110 using std::fprintf;
111 using std::fscanf;
112 using std::printf;
113 using std::scanf;
114 using std::sprintf;
115 using std::sscanf;
116 using std::vfprintf;
117 using std::vprintf;
118 using std::vsprintf;
119 using std::fgetc;
120 using std::fgets;
121 using std::fputc;
122 using std::fputs;
123 using std::getc;
124 using std::getchar;
125 using std::gets;
126 using std::putc;
127 using std::putchar;

```

```

128 using std::puts;
129 using std::ungetc;
130 using std::fread;
131 using std::fwrite;
132 using std::fgetpos;
133 using std::fseek;
134 using std::fsetpos;
135 using std::ftell;
136 using std::rewind;
137 using std::clearerr;
138 using std::feof;
139 using std::ferror;
140 using std::perror;
141 #ifndef _LP64
142 using std::__filbuf;
143 using std::__flsbuf;
144 #endif /* _LP64 */
145 #endif /* __cplusplus >= 199711L */

147 /*
148 * This header needs to be included here because it relies on the global
149 * visibility of FILE and size_t in the C++ environment.
150 */
151 #include <iso/stdio_c99.h>

153 #ifdef __cplusplus
154 extern "C" {
155 #endif

157 #if defined(_LARGEFILE_SOURCE) || defined(_XPG5)
158 #ifndef _OFF_T
159 #define _OFF_T
160 #if defined(_LP64) || _FILE_OFFSET_BITS == 32
161 typedef long off_t;
162 #else
163 typedef __longlong_t off_t;
164 #endif
165 #ifdef _LARGEFILE64_SOURCE
166 #ifdef _LP64
167 typedef off_t off64_t;
168 #else
169 typedef __longlong_t off64_t;
170 #endif
171 #endif /* _LARGEFILE64_SOURCE */
172 #endif /* _OFF_T */
173 #endif /* _LARGEFILE_SOURCE */

175 #ifdef _LARGEFILE64_SOURCE
176 #ifdef _LP64
177 typedef fpos_t fpos64_t;
178 #else
179 typedef __longlong_t fpos64_t;
180 #endif
181 #endif /* _LARGEFILE64_SOURCE */

183 /*
184 * XPG4 requires that va_list be defined in <stdio.h> "as described in
185 * <stdarg.h>". ANSI-C and POSIX require that the namespace of <stdio.h>
186 * not be polluted with this name.
187 */
188 #if defined(_XPG4) && !defined(_VA_LIST)
189 #define _VA_LIST
190 typedef __va_list va_list;
191 #endif /* defined(_XPG4) && !defined(_VA_LIST) */

193 #if defined(__EXTENSIONS__) || !defined(_STRICT_STDC) || \

```

```

194 defined(__XOPEN_OR_POSIX)

196 #define L_ctermid 9

198 /* Marked LEGACY in SUSv2 and removed in SUSv3 */
199 #if !defined(_XPG6) || defined(__EXTENSIONS__)
200 #define L_cuserid 9
201 #endif

203 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

205 #if defined(__EXTENSIONS__) || \
206 (!defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) || \
207 defined(_XOPEN_SOURCE)

209 #define P_tmpdir "/var/tmp/"
210 #endif /* defined(__EXTENSIONS__) || (!defined(_STRICT_STDC) ... */

212 #ifndef _STDIO_ALLOCATE
213 extern unsigned char _sibuf[], _sobuf[];
214 #endif

216 /* large file compilation environment setup */
217 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
218 #if !defined(__PRAGMA_REDEFINE_EXTNAME)
219 #if defined(__STDC__)
220 extern FILE *fopen64(const char *, const char *);
221 extern FILE *freopen64(const char *, const char *, FILE *);
222 extern FILE *tmpfile64(void);
223 extern int fgetpos64(FILE *, fpos_t *);
224 extern int fsetpos64(FILE *, const fpos_t *);
225 #else /* defined(__STDC__) */
226 extern FILE *fopen64();
227 extern FILE *freopen64();
228 extern FILE *tmpfile64();
229 extern int fgetpos64();
230 extern int fsetpos64();
231 #endif /* defined(__STDC__) */
232 #define fopen fopen64
233 #define freopen freopen64
234 #define tmpfile tmpfile64
235 #define fgetpos fgetpos64
236 #define fsetpos fsetpos64
237 #ifdef _LARGEFILE_SOURCE
238 #define fseeko fseeko64
239 #define ftello ftello64
240 #endif
241 #endif /* !_PRAGMA_REDEFINE_EXTNAME */
242 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

244 #ifndef _LP64
245 extern unsigned char *_bufendtab[];
246 extern FILE *_lastbuf;
247 #endif

249 /* In the LP64 compilation environment, all APIs are already large file */
250 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
251 #if !defined(__PRAGMA_REDEFINE_EXTNAME)
252 #define fopen64 fopen
253 #define freopen64 freopen
254 #define tmpfile64 tmpfile
255 #define fgetpos64 fgetpos
256 #define fsetpos64 fsetpos
257 #ifdef _LARGEFILE_SOURCE
258 #define fseeko64 fseeko
259 #define ftello64 ftello

```



```

252 #endif
253 #endif /* !__PRAGMA_REDEFINE_EXTNAME */
254 #endif /* _LP64 && _LARGEFILE64_SOURCE */

256 #ifndef _SSIZE_T
257 #define _SSIZE_T
258 #if defined(_LP64) || defined(_I32LPx)
259 typedef long    ssize_t; /* size of something in bytes or -1 */
260 #else
261 typedef int     ssize_t; /* (historical version) */
262 #endif
263 #endif /* !_SSIZE_T */

272 #if defined(__STDC__)

265 #if defined(__EXTENSIONS__) || \
266     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
267     defined(_REENTRANT)
268 extern char    *tmpnam_r(char *);
269 #endif

271 #if defined(__EXTENSIONS__) || \
272     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
273 extern int fcloseall(void);
274 extern void setbuffer(FILE *, char *, size_t);
275 extern int setlinebuf(FILE *);
276 /* PRINTFLIKE2 */
277 extern int asprintf(char **, const char *, ...);
278 /* PRINTFLIKE2 */
279 extern int vasprintf(char **, const char *, __va_list);
280 #endif

282 #if defined(__EXTENSIONS__) || \
283     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
284 /* || defined(_XPG7) */
285 extern ssize_t getdelim(char **_RESTRICT_KYWD, size_t *_RESTRICT_KYWD,
286 int, FILE *_RESTRICT_KYWD);
287 extern ssize_t getline(char **_RESTRICT_KYWD, size_t *_RESTRICT_KYWD,
288 FILE *_RESTRICT_KYWD);
289 #endif /* __EXTENSIONS__ ... */

291 /*
292 * The following are known to POSIX and XOPEN, but not to ANSI-C.
293 */
294 #if defined(__EXTENSIONS__) || \
295     !defined(_STRICT_STDC) || defined(__XOPEN_OR_POSIX)

297 extern FILE    *fdopen(int, const char *);
298 extern char    *ctermid(char *);
299 extern int     fileno(FILE *);

301 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

303 /*
304 * The following are known to POSIX.1c, but not to ANSI-C or XOPEN.
305 */
306 #if defined(__EXTENSIONS__) || defined(_REENTRANT) || \
307     (_POSIX_C_SOURCE - 0 >= 199506L)
308 extern void    flockfile(FILE *);
309 extern int     ftrylockfile(FILE *);
310 extern void    funlockfile(FILE *);
311 extern int     getc_unlocked(FILE *);
312 extern int     getchar_unlocked(void);
313 extern int     putc_unlocked(int, FILE *);
314 extern int     putchar_unlocked(int);

```

```

316 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT).. */

318 /*
319 * The following are known to XOPEN, but not to ANSI-C or POSIX.
320 */
321 #if defined(__EXTENSIONS__) || !defined(_STRICT_STDC) || \
322     defined(_XOPEN_SOURCE)
323 extern FILE    *popen(const char *, const char *);
324 extern char    *tempnam(const char *, const char *);
325 extern int     pclose(FILE *);
326 #if !defined(_XOPEN_SOURCE)
327 extern int     getsubopt(char **, char *const *, char **);
328 #endif /* !defined(_XOPEN_SOURCE) */

330 /* Marked LEGACY in SUSv2 and removed in SUSv3 */
331 #if !defined(_XPG6) || defined(__EXTENSIONS__)
332 extern char    *userid(char *);
333 extern int     getopt(int, char *const *, const char *);
334 extern char    *optarg;
335 extern int     optind, opterr, optopt;
336 extern int     getw(FILE *);
337 extern int     putw(int, FILE *);
338 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */

340 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

342 /*
343 * The following are defined as part of the Large File Summit interfaces.
344 */
345 #if defined(_LARGEFILE_SOURCE) || defined(_XPG5)
346 extern int     fseeko(FILE *, off_t, int);
347 extern off_t   ftello(FILE *);
348 #endif

350 /*
351 * The following are defined as part of the transitional Large File Summit
352 * interfaces.
353 */
354 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
355     !defined(__PRAGMA_REDEFINE_EXTNAME))
356 extern FILE    *fopen64(const char *, const char *);
357 extern FILE    *freopen64(const char *, const char *, FILE *);
358 extern FILE    *tmpfile64(void);
359 extern int     fgetpos64(FILE *, fpos64_t *);
360 extern int     fsetpos64(FILE *, const fpos64_t *);
361 extern int     fseeko64(FILE *, off64_t, int);
362 extern off64_t ftello64(FILE *);
363 #endif

374 #else /* !defined __STDC__ */

376 #ifndef _LP64
377 #define _bufend(p)    ((fileno(p) < _NFILE) ? _bufendtab[fileno(p)] : \
378     (unsigned char *)_realbufend(p))
379 #define _bufsiz(p)    (_bufend(p) - (p)->_base)
380 #endif /* _LP64 */

382 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
383     defined(_REENTRANT)
384 extern char    *tmpnam_r();
385 #endif

387 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
388 extern int fcloseall();
389 extern void setbuffer();
390 extern int setlinebuf();

```

```

391 extern int asprintf();
392 extern int vasprintf();
393 #endif

395 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
396 /* || defined(__XPG7) */
397 extern ssize_t getdelim();
398 extern ssize_t getline();
399 #endif /* __EXTENSIONS__ ... */

401 #if defined(__EXTENSIONS__) || defined(__XOPEN_OR_POSIX)
402 extern FILE *fdopen();
403 extern char *ctermid();
404 extern int fileno();
405 #endif /* defined(__EXTENSIONS__) || defined(__XOPEN_OR_POSIX) */

407 #if defined(__EXTENSIONS__) || defined(_REENTRANT) || \
408     (_POSIX_C_SOURCE - 0 >= 199506L)
409 extern void flockfile();
410 extern int  ftrylockfile();
411 extern void funlockfile();
412 extern int  getc_unlocked();
413 extern int  getchar_unlocked();
414 extern int  putc_unlocked();
415 extern int  putchar_unlocked();
416 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT).. */

418 #if defined(__EXTENSIONS__) || defined(_XOPEN_SOURCE)
419 extern FILE *popen();
420 extern char *tempnam();
421 extern int  pclose();

423 #if !defined(_XOPEN_SOURCE)
424 extern int  getsuopt();
425 #endif /* !defined(_XOPEN_SOURCE) */

427 #if !defined(__XPG6) || defined(__EXTENSIONS__)
428 extern char *cuserid();
429 extern int  getopt();
430 extern char *optarg;
431 extern int  optind, opterr, optopt;
432 extern int  getw();
433 extern int  putw();
434 #endif /* !defined(__XPG6) || defined(__EXTENSIONS__) */

436 #endif /* defined(__EXTENSIONS__) || defined(_XOPEN_SOURCE) */

438 #if defined(_LARGEFILE_SOURCE) || defined(__XPG5)
439 extern int  fseeko();
440 extern off_t ftello();
441 #endif

443 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
444     !defined(__PRAGMA_REDEFINE_EXTNAME))
445 extern FILE *fopen64();
446 extern FILE *freopen64();
447 extern FILE *tmpfile64();
448 extern int  fgetpos64();
449 extern int  fsetpos64();
450 extern int  fseeko64();
451 extern off64_t ftello64();
452 #endif

454 #endif /* __STDC__ */

365 #if !defined(__lint)

```

```

367 #if defined(__EXTENSIONS__) || defined(_REENTRANT) || \
368     (_POSIX_C_SOURCE - 0 >= 199506L)
369 #ifndef _LP64
461 #ifdef __STDC__
370 #define getc_unlocked(p)      (--(p)->_cnt < 0 \
371                               ? __filbuf(p) \
372                               : (int)*(p)->_ptr++)
373 #define putc_unlocked(x, p)  (--(p)->_cnt < 0 \
374                               ? __flsbuf((x), (p)) \
375                               : (int)*(p)->_ptr++ = \
376                               (unsigned char)(x))
469 #else
470 #define getc_unlocked(p)      (--(p)->_cnt < 0 \
471                               ? __filbuf(p) \
472                               : (int)*(p)->_ptr++)
473 #define putc_unlocked(x, p)  (--(p)->_cnt < 0 \
474                               ? __flsbuf((x), (p)) \
475                               : (int)*(p)->_ptr++ = \
476                               (unsigned char)(x))
477 #endif /* __STDC__ */
377 #endif /* _LP64 */
378 #define getchar_unlocked()   getc_unlocked(stdin)
379 #define putchar_unlocked(x) putc_unlocked((x), stdout)
380 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT).. */

382 #endif /* !defined(__lint) */

384 #ifdef __cplusplus
385 }
    unchanged_portion_omitted

```

new/usr/src/head/stdlib.h

1

```
*****
8224 Sat Aug 2 23:27:15 2014
new/usr/src/head/stdlib.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
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15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  * Copyright (c) 2013 Gary Mills
25  *
26  * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
27  */
29 /* Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved. */
31 /*      Copyright (c) 1988 AT&T */
32 /*      All Rights Reserved      */
34 #ifndef _STDLIB_H
35 #define _STDLIB_H
37 #include <iso/stdlib_iso.h>
38 #include <iso/stdlib_c99.h>
40 #if defined(__EXTENSIONS__) || defined(_XPG4)
41 #include <sys/wait.h>
42 #endif
44 /*
45  * Allow global visibility for symbols defined in
46  * C++ "std" namespace in <iso/stdlib_iso.h>.
47  */
48 #if __cplusplus >= 199711L
49 using std::div_t;
50 using std::ldiv_t;
51 using std::size_t;
52 using std::abort;
53 using std::abs;
54 using std::atexit;
55 using std::atof;
56 using std::atoi;
57 using std::atol;
58 using std::bsearch;
59 using std::calloc;
60 using std::div;
61 using std::exit;
```

new/usr/src/head/stdlib.h

2

```
62 using std::free;
63 using std::getenv;
64 using std::labs;
65 using std::ldiv;
66 using std::malloc;
67 using std::mblen;
68 using std::mbstowcs;
69 using std::mbtowc;
70 using std::qsort;
71 using std::rand;
72 using std::realloc;
73 using std::srand;
74 using std::strtod;
75 using std::strtol;
76 using std::strtoul;
77 using std::system;
78 using std::wctombs;
79 using std::wctomb;
80 #endif
82 #ifdef __cplusplus
83 extern "C" {
84 #endif
86 #ifndef _UID_T
87 #define _UID_T
88 typedef unsigned int    uid_t;          /* UID type          */
89 #endif /* !_UID_T */
90 #if defined(__STDC__)
91 /* large file compilation environment setup */
92 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
94 #ifdef __PRAGMA_REDEFINE_EXTNAME
95 #pragma redefine_extname    mkstemp        mkstemp64
96 #pragma redefine_extname    mkstemps      mkstemps64
97 #else /* __PRAGMA_REDEFINE_EXTNAME */
98 #define mkstemp              mkstemp64
99 #define mkstemps            mkstemps64
100 #endif /* __PRAGMA_REDEFINE_EXTNAME */
102 #endif /* _FILE_OFFSET_BITS == 64 */
104 /* In the LP64 compilation environment, all APIs are already large file */
105 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
107 #ifdef __PRAGMA_REDEFINE_EXTNAME
108 #pragma redefine_extname    mkstemp64      mkstemp
109 #pragma redefine_extname    mkstemps64     mkstemps
110 #else /* __PRAGMA_REDEFINE_EXTNAME */
111 #define mkstemp64           mkstemp
112 #define mkstemps64         mkstemps
113 #endif /* __PRAGMA_REDEFINE_EXTNAME */
115 #endif /* _LP64 && _LARGEFILE64_SOURCE */
117 #if defined(__EXTENSIONS__) || \
118     (!defined(_STRICT_STDC) && !defined(__OPEN_OR_POSIX)) || \
119     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
120 extern int rand_r(unsigned int *);
121 #endif
123 extern void _exithandle(void);
125 #if defined(__EXTENSIONS__) || \
```

```

126     (!defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) || \
127     defined(_XPG4)
128 extern double drand48(void);
129 extern double erand48(unsigned short *);
130 extern long jrand48(unsigned short *);
131 extern void lcong48(unsigned short *);
132 extern long lrand48(void);
133 extern long mrand48(void);
134 extern long nrand48(unsigned short *);
135 extern unsigned short *seed48(unsigned short *);
136 extern void srand48(long);
137 extern int putenv(char *);
138 extern void setkey(const char *);
139 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

141 /*
142 * swab() has historically been in <stdlib.h> as delivered from AT&T
143 * and continues to be visible in the default compilation environment.
144 * As of Issue 4 of the X/Open Portability Guides, swab() was declared
145 * in <unistd.h>. As a result, with respect to X/Open namespace the
146 * swab() declaration in this header is only visible for the XPG3
147 * environment.
148 */
149 #if defined(__EXTENSIONS__) || \
150     (!defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) && \
151     (!defined(_XOPEN_SOURCE) || (defined(_XPG3) && !defined(_XPG4)))
152 #ifndef _SSIZE_T
153 #define _SSIZE_T
154 #if defined(_LP64) || defined(_I32LPx)
155 typedef long    ssize_t;      /* size of something in bytes or -1 */
156 #else
157 typedef int     ssize_t;     /* (historical version) */
158 #endif
159 #endif /* !_SSIZE_T */

161 extern void swab(const char *, char *, ssize_t);
162 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

164 #if defined(__EXTENSIONS__) || \
165     (!defined(_XOPEN_OR_POSIX) || defined(_XPG4_2) || \
166     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64))
167 extern int mkstemp(char *);
168 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
169 extern int mkstemps(char *, int);
170 #endif
171 #endif /* defined(__EXTENSIONS__) ... */

173 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
174     !defined(__PRAGMA_REDEFINE_EXTNAME))
175 extern int mkstemp64(char *);
176 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
177 extern int mkstemps64(char *, int);
178 #endif
179 #endif /* _LARGEFILE64_SOURCE... */

181 #if defined(__EXTENSIONS__) || \
182     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
183     defined(_XPG4_2)
184 extern long a64l(const char *);
185 extern char *ecvt(double, int, int *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
186 extern char *fcvt(double, int, int *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
187 extern char *gcvt(double, int, char *);
188 extern int getsuopt(char **, char *const *, char **);
189 extern int grantpt(int);
190 extern char *initsate(unsigned, char *, size_t);
191 extern char *l64a(long);

```

```

192 extern char *mktemp(char *);
193 extern char *ptsname(int);
194 extern long random(void);
195 extern char *realpath(const char *_RESTRICT_KYWD, char *_RESTRICT_KYWD);
196 extern char *setstate(const char *);
197 extern void srandom(unsigned);
198 extern int unlockpt(int);
199 /* Marked LEGACY in SUSv2 and removed in SUSv3 */
200 #if !defined(_XPG6) || defined(__EXTENSIONS__)
201 extern int ttyslot(void);
202 extern void *valloc(size_t);
203 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */
204 #endif /* defined(__EXTENSIONS__) || ... || defined(_XPG4_2) */

206 #if defined(__EXTENSIONS__) || \
207     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
208     defined(_XPG6)
209 extern int posix_memalign(void **, size_t, size_t);
210 extern int posix_openpt(int);
211 extern int setenv(const char *, const char *, int);
212 extern int unsetenv(const char *);
213 #endif

215 #if defined(__EXTENSIONS__) || \
216     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX))
217 extern char *canonicalize_file_name(const char *);
218 extern int clearenv(void);
219 extern void closefrom(int);
220 extern int daemon(int, int);
221 extern int dup2(int, int);
222 extern int dup3(int, int, int);
223 extern int fdwalk(int (*)(void *, int), void *);
224 extern char *qecvt(long double, int, int *, int *);
225 extern char *qfcvt(long double, int, int *, int *);
226 extern char *qgcvt(long double, int, char *);
227 extern char *getcwd(char *, size_t);
228 extern const char *getexecname(void);

230 #ifndef __GETLOGIN_DEFINED /* Avoid duplicate in unistd.h */
231 #define __GETLOGIN_DEFINED
232 #ifndef __USE_LEGACY_LOGNAME
233 #ifdef __PRAGMA_REDEFINE_EXTNAME
234 #pragma redefine_extname getlogin getloginx
235 #else /* __PRAGMA_REDEFINE_EXTNAME */
236 extern char *getloginx(void);
237 #define getlogin getloginx
238 #endif /* __PRAGMA_REDEFINE_EXTNAME */
239 #endif /* __USE_LEGACY_LOGNAME */
240 extern char *getlogin(void);
241 #endif /* __GETLOGIN_DEFINED */

243 extern int getopt(int, char *const *, const char *);
244 extern char *optarg;
245 extern int optind, opterr, optopt;
246 extern char *getpass(const char *);
247 extern char *getpassphrase(const char *);
248 extern int getpw(uid_t, char *);
249 extern int isatty(int);
250 extern void *memalign(size_t, size_t);
251 extern char *ttyname(int);
252 extern char *mkdtemp(char *);
253 extern const char *getprogname(void);
254 extern void setprogname(const char *);

256 #if !defined(_STRICT_STDC) && defined(_LONGLONG_TYPE)
257 extern char *lltostr(long long, char *);

```

```

258 extern char *ulltostr(unsigned long long, char *);
259 #endif /* !defined(_STRICT_STDC) && defined(_LONGLONG_TYPE) */

261 #endif /* defined(__EXTENSIONS__) || !defined(_STRICT_STDC) ... */

264 #else /* not __STDC__ */

266 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
267     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
268 extern int rand_r();
269 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT) ... */

271 extern void _exithandle();

273 #if defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) || defined(_XPG4)
274 extern double drand48();
275 extern double erand48();
276 extern long jrand48();
277 extern void lcong48();
278 extern long lrand48();
279 extern long mrand48();
280 extern long nrand48();
281 extern unsigned short *seed48();
282 extern void srand48();
283 extern int putenv();
284 extern void setkey();
285 #endif /* defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE) ... */

287 #if (defined(__EXTENSIONS__) || !defined(_POSIX_C_SOURCE)) && \
288     (!defined(__XOPEN_SOURCE) || (defined(_XPG3) && !defined(_XPG4)))
289 extern void swab();
290 #endif

292 #if defined(__EXTENSIONS__) || \
293     !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || \
294     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64)
295 extern int mkstemp();
296 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
297 extern int mkstemps();
298 #endif
299 #endif /* defined(__EXTENSIONS__) ... */

301 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
302     !defined(__PRAGMA_REDEFINE_EXTNAME))
303 extern int mkstemp64();
304 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
305 extern int mkstemps64();
306 #endif
307 #endif /* _LARGEFILE64_SOURCE... */

309 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)
310 extern long a64l();
311 extern char *ecvt();
312 extern char *fcvt();
313 extern char *gcvt();
314 extern int getsuopt();
315 extern int grantpt();
316 extern char *initstate();
317 extern char *l64a();
318 extern char *mktemp();
319 extern char *ptsname();
320 extern long random();
321 extern char *realpath();
322 extern char *setstate();
323 extern void srandom();
324 /* Marked LEGACY in SUSv2 and removed in SUSv3 */

```

```

325 #if !defined(_XPG6) || defined(__EXTENSIONS__)
326 extern int ttyslot();
327 extern void *valloc();
328 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */
329 #endif /* defined(__EXTENSIONS__) || ... || defined(_XPG4_2) */

331 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || defined(_XPG6)
332 extern int posix_memalign();
333 extern int posix_openpt();
334 extern int setenv();
335 extern int unsetenv();
336 #endif

338 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX)
339 extern char *canonicalize_file_name();
340 extern int clearenv();
341 extern void closefrom();
342 extern int daemon();
343 extern int dup2();
344 extern int dup3();
345 extern int fdwalk();
346 extern char *qfcvt();
347 extern char *qfcvt();
348 extern char *qgcvt();
349 extern char *getcwd();
350 extern char *getexecname();

352 #ifndef __GETLOGIN_DEFINED /* Avoid duplicate in unistd.h */
353 #define __GETLOGIN_DEFINED
354 #ifndef __USE_LEGACY_LOGNAME
355 #ifdef __PRAGMA_REDEFINE_EXTNAME
356 #pragma redefine_extname getlogin getloginx
357 #else /* __PRAGMA_REDEFINE_EXTNAME */
358 extern char *getloginx();
359 #define getlogin getloginx
360 #endif /* __PRAGMA_REDEFINE_EXTNAME */
361 #endif /* __USE_LEGACY_LOGNAME */
362 extern char *getlogin();
363 #endif /* __GETLOGIN_DEFINED */

365 extern int getopt();
366 extern char *optarg;
367 extern int optind, opterr, optopt;
368 extern char *getpass();
369 extern char *getpassphrase();
370 extern int getpw();
371 extern int isatty();
372 extern void *memalign();
373 extern char *ttyname();
374 extern char *mkdtemp();
375 extern char *getprogname();
376 extern void setprogname();

378 #if defined(_LONGLONG_TYPE)
379 extern char *lltostr();
380 extern char *ulltostr();
381 #endif /* defined(_LONGLONG_TYPE) */
382 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */

384 #endif /* __STDC__ */

263 #ifdef __cplusplus
264 }
265 #endif

267 #endif /* _STDLIB_H */

```

new/usr/src/head/string.h

1

```
*****
5808 Sat Aug 2 23:27:15 2014
new/usr/src/head/string.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25  */
26
27 /*      Copyright (c) 1988 AT&T */
28 /*      All Rights Reserved      */
29
30 #ifndef _STRING_H
31 #define _STRING_H
32
33 #include <iso/string_iso.h>
34
35 /*
36  * Allow global visibility for symbols defined in
37  * C++ "std" namespace in <iso/string_iso.h>.
38  */
39 #if __cplusplus >= 199711L
40 using std::size_t;
41 using std::memchr;
42 using std::memcmp;
43 using std::memcpy;
44 using std::memmove;
45 using std::memset;
46 using std::strcat;
47 using std::strchr;
48 using std::strcmp;
49 using std::strcoll;
50 using std::strcpy;
51 using std::strcspn;
52 using std::strerror;
53 using std::strlen;
54 using std::strncat;
55 using std::strncpy;
56 using std::strncpy;
57 using std::strpbrk;
58 using std::strrchr;
59 using std::strspn;
60 using std::strstr;
61 using std::strtok;
```

new/usr/src/head/string.h

2

```
62 using std::strxfrm;
63 #endif
64
65 #ifdef __cplusplus
66 extern "C" {
67 #endif
68
69 #if defined(__STDC__)
70
71 #if defined(__EXTENSIONS__) || \
72     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
73     defined(_XPG6) || defined(_REENTRANT)
74 extern int strerror_r(int, char *, size_t);
75 #endif
76
77 #if defined(__EXTENSIONS__) || \
78     (!defined(_STRICT_STDC) && !defined(_XOPEN_OR_POSIX)) || \
79     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
80 extern char *strtok_r(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
81     char **_RESTRICT_KYWD);
82 #endif
83
84 #if defined(__EXTENSIONS__) || !defined(_STRICT_STDC) || \
85     defined(_XOPEN_OR_POSIX)
86 extern void *memcpy(void *_RESTRICT_KYWD, const void *_RESTRICT_KYWD,
87     int, size_t);
88 #endif
89
90 #if !defined(_STRICT_SYMBOLS) || defined(_XPG7)
91
92 extern char *stpcpy(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD);
93 extern char *stpncpy(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD, size_t);
94 extern char *strndup(const char *, size_t);
95 extern size_t strnlen(const char *, size_t);
96 extern char *strsignal(int);
97
98 #endif
99
100 #ifndef _LOCALE_T
101 #define _LOCALE_T
102 typedef struct _locale *locale_t;
103 #endif
104
105 extern int strcoll_l(const char *, const char *, locale_t);
106 extern size_t strxfrm_l(char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
107     size_t, locale_t);
108 extern int strcasecmp_l(const char *, const char *, locale_t);
109 extern int strncasecmp_l(const char *, const char *, size_t, locale_t);
110
111 #endif /* defined(_STRICT_SYMBOLS) || defined(_XPG7) */
112
113 #if !defined(_STRICT_SYMBOLS)
114
115 /* Note that some of these are also declared in strings.h for XPG4.2+ */
116 extern int ucopy(const void *_RESTRICT_KYWD, void *_RESTRICT_KYWD, size_t);
117 extern int ucopystr(const void *_RESTRICT_KYWD, void *_RESTRICT_KYWD, size_t);
118 extern int ffs(int);
119 extern int ffsll(long);
120 extern int fls(int);
121 extern int flsll(long);
122 extern int flsl(long);
123 extern int flsll(long long);
124 extern void *mempmem(const void *, size_t, const void *, size_t);
125 extern char *strcasestr(const char *, const char *);
126 extern char *strnstr(const char *, const char *, size_t);
127 extern size_t strlcpy(char *, const char *, size_t);
128 extern size_t strlcat(char *, const char *, size_t);
129 extern char *strsep(char **stringp, const char *delim);
```

```

126 extern char *strchrnul(const char *, int);
127 extern char *strcasestr_l(const char *, const char *, locale_t);
128 extern int strcasecmp(const char *, const char *);
129 extern int strncasecmp(const char *, const char *, size_t);
130 #endif /* defined(__EXTENSIONS__)... */

132 #if defined(__EXTENSIONS__) || \
133     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
134     defined(_XPG4_2)
135 extern char *strdup(const char *);
136 #endif

138 #if defined(__EXTENSIONS__) || \
139     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
140 #if defined(__GNUC__)

142 /*
143  * gcc provides this inlining facility but Studio C does not.
144  * We should use it exclusively once Studio C also provides it.
145  */
146 extern void *__builtin_alloca(size_t);

148 #define strdupa(s) \
149     (__extension__( \
150     { \
151     char *__str = (char *) (s); \
152     strcpy((char *)__builtin_alloca(strlen(__str) + 1), __str); \
153     })

155 #define strndupa(s, n) \
156     (__extension__( \
157     { \
158     char *__str = (char *) (s); \
159     size_t __len = strlen(__str, (n)); \
160     (__str = strncpy((char *)__builtin_alloca(__len + 1), \
161     __str, __len), \
162     __str[__len] = '\0', __str); \
163     }))

165 #else /* __GNUC__ */

167 #if defined(unix) /* excludes c99 */
168 /*
169  * Studio C currently can't do the gcc-style inlining,
170  * so we use thread-local storage instead.
171  */
172 extern void *__builtin_alloca(size_t);
173 extern __thread char *__strdupa_str;
174 extern __thread size_t __strdupa_len;

176 #define strdupa(s) \
177     (__strdupa_str = (char *) (s), \
178     strcpy((char *)__builtin_alloca(strlen(__strdupa_str) + 1), \
179     __strdupa_str))

181 #define strndupa(s, n) \
182     (__strdupa_str = (char *) (s), \
183     __strdupa_len = strlen(__strdupa_str, (n)), \
184     __strdupa_str = strncpy((char *)__builtin_alloca(__strdupa_len + 1), \
185     __strdupa_str, __strdupa_len), \
186     __strdupa_str[__strdupa_len] = '\0', __strdupa_str)
187 #endif /* unix */

189 #endif /* __GNUC__ */
190 #endif /* __EXTENSIONS__ ... */

```

```

194 #else /* __STDC__ */

196 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
197     defined(_XPG6) || defined(_REENTRANT)
198 extern int strerror_r();
199 #endif

201 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || \
202     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
203 extern char *strtok_r();
204 #endif

206 #if defined(__EXTENSIONS__) || !defined(_STRICT_STDC) || \
207     defined(__XOPEN_OR_POSIX)
208 extern void *memcpy();
209 #endif

211 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
212 extern int strcasecmp();
213 extern int strncasecmp();
214 extern int strcasecmp_l();
215 extern int strncasecmp_l();
216 extern char *stpcpy();
217 extern char *stpncpy();
218 extern char *strndup();
219 extern size_t strlen();
220 extern char *strsignal();
221 #endif

223 #if !defined(_STRICT_SYMBOLS)
224 extern int ucopy();
225 extern int ucopystr();
226 extern int ffs();
227 extern int ffs1();
228 extern int ffsll();
229 extern int fls();
230 extern int fls1();
231 extern int flsll();
232 extern char *strcasestr();
233 extern char *strcasestr_l();
234 extern char *strnstr();
235 extern size_t strlcpy();
236 extern size_t strlcat();
237 extern char *strsep();
238 extern char *strchrnul();
239 #endif /* _STRICT_SYMBOLS */

241 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)
242 extern char *strdup();
243 #endif

245 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
246 extern size_t strcoll_l();
247 extern size_t strxfrm_l();
248 #endif

250 #endif /* __STDC__ */

192 #ifdef __cplusplus
193 }

```

unchanged portion omitted

new/usr/src/head/strings.h

1

```
*****
2483 Sat Aug 2 23:27:15 2014
new/usr/src/head/strings.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright (c) 1995, 1996, by Sun Microsystems, Inc.
26  * All rights reserved.
27  */
28 /*
29  * Copyright 2013 Garrett D'Amore <garrett@damore.org>
30  */

29 #ifndef _STRINGS_H
30 #define _STRINGS_H

32 #include <sys/types.h>
33 #include <sys/feature_tests.h>

35 #if !defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
36 #include <string.h>
37 #endif

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

44 #if defined(__STDC__)

43 extern int bcmp(const void *, const void *, size_t);
44 extern void bcopy(const void *, void *, size_t);
45 extern void bzero(void *, size_t);

47 extern char *index(const char *, int);
48 extern char *rindex(const char *, int);

50 /*
51  * X/Open System Interfaces and Headers, Issue 4, Version 2, defines
52  * both <string.h> and <strings.h>. The namespace requirements
53  * do not permit the visibility of anything other than what is
54  * specifically defined for each of these headers. As a result,
55  * inclusion of <string.h> would result in declarations not allowed
56  * in <strings.h>, and making the following prototypes visible for
```

new/usr/src/head/strings.h

2

```
57  * anything other than X/Open UNIX Extension would result in
58  * conflicts with what is now in <string.h>.
59  */
60 #if defined(_XPG4_2) && !defined(__EXTENSIONS__)
61 extern int ffs(int);
62 extern int strcasecmp(const char *, const char *);
63 extern int strncasecmp(const char *, const char *, size_t);
64 #if defined(_XPG7)
65 #ifndef _LOCALE_T
66 #define _LOCALE_T
67 typedef struct _locale *locale_t;
68 #endif
69 extern int strcasecmp_l(const char *, const char *, locale_t);
70 extern int strncasecmp_l(const char *, const char *, size_t, locale_t);
71 #endif /* defined(_XPG7) */
72 #endif /* defined(_XPG4_2) && !defined(__EXTENSIONS__) */

77 #else

79 extern int bcmp();
80 extern void bcopy();
81 extern void bzero();

83 extern char *index();
84 extern char *rindex();

86 #if defined(_XPG4_2) && !defined(__EXTENSIONS__)
87 extern int ffs();
88 extern int strcasecmp();
89 extern int strncasecmp();
90 #if defined(_XPG7)
91 extern int strcasecmp_l();
92 extern int strncasecmp_l();
93 #endif
94 #endif /* defined(_XPG4_2) && !defined(__EXTENSIONS__) */

96 #endif /* __STDC__ */

74 #ifdef __cplusplus
75 }

```

unchanged\_portion\_omitted



new/usr/src/head/stropts.h

1

```
*****
1963 Sat Aug 2 23:27:15 2014
new/usr/src/head/stropts.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1988 AT&T */
23 /*      All Rights Reserved      */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2003 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */

32 #ifndef _STROPTS_H
33 #define _STROPTS_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.6 */

35 /*
36 * Streams user options definitions.
37 */

39 #include <sys/feature_tests.h>
40 #include <sys/stropts.h>

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

47 #if defined(__STDC__)

46 extern int isastream(int);

48 extern int getmsg(int, struct strbuf *_RESTRICT_KYWD,
49                  struct strbuf *_RESTRICT_KYWD, int *_RESTRICT_KYWD);
50 extern int putmsg(int, const struct strbuf *, const struct strbuf *, int);

52 extern int getpmsg(int, struct strbuf *_RESTRICT_KYWD,
53                  struct strbuf *_RESTRICT_KYWD, int *_RESTRICT_KYWD,
54                  int *_RESTRICT_KYWD);
55 extern int putpmsg(int, const struct strbuf *, const struct strbuf *, int, int);
```

new/usr/src/head/stropts.h

2

```
57 /*
58  * These three routines are duplicated in unistd.h; duplication necessitated
59  * by XPG4.2 compliance/namespace issues.
60 */
61 extern int ioctl(int, int, ...);
62 extern int fattach(int, const char *);
63 extern int fdetach(const char *);

68 #endif

65 #ifdef __cplusplus
66 }
unchanged_portion_omitted
```

```

*****
7197 Sat Aug 2 23:27:15 2014
new/usr/src/head/synch.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  * Copyright (c) 1992, 2010, Oracle and/or its affiliates. All rights reserved.
25  */

27 #ifndef _SYNCH_H
28 #define _SYNCH_H

30 /*
31  * synch.h:
32  * definitions needed to use the thread synchronization interface
33  */

35 #ifndef _ASM
36 #include <sys/machlock.h>
37 #include <sys/time_impl.h>
38 #include <sys/synch.h>
39 #endif /* _ASM */

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 #ifndef _ASM

47 /*
48  * Semaphores
49  */
50 typedef struct _sema {
51     /* this structure must be the same as sem_t in <semaphore.h> */
52     uint32_t    count;        /* semaphore count */
53     uint16_t    type;
54     uint16_t    magic;
55     upad64_t    pad1[3];     /* reserved for a mutex_t */
56     upad64_t    pad2[2];     /* reserved for a cond_t */
57 } sema_t;
58
59 #ifdef __STDC__
60 int    _lwp_mutex_lock(lwp_mutex_t *);

```

```

91 int    _lwp_mutex_unlock(lwp_mutex_t *);
92 int    _lwp_mutex_trylock(lwp_mutex_t *);
93 int    _lwp_cond_wait(lwp_cond_t *, lwp_mutex_t *);
94 int    _lwp_cond_timedwait(lwp_cond_t *, lwp_mutex_t *, timespec_t *);
95 int    _lwp_cond_reltimedwait(lwp_cond_t *, lwp_mutex_t *, timespec_t *);
96 int    _lwp_cond_signal(lwp_cond_t *);
97 int    _lwp_cond_broadcast(lwp_cond_t *);
98 int    _lwp_sema_init(lwp_sema_t *, int);
99 int    _lwp_sema_wait(lwp_sema_t *);
100 int    _lwp_sema_trywait(lwp_sema_t *);
101 int    _lwp_sema_post(lwp_sema_t *);
102 int    cond_init(cond_t *, int, void *);
103 int    cond_destroy(cond_t *);
104 int    cond_wait(cond_t *, mutex_t *);
105 int    cond_timedwait(cond_t *, mutex_t *, const timespec_t *);
106 int    cond_reltimedwait(cond_t *, mutex_t *, const timespec_t *);
107 int    cond_signal(cond_t *);
108 int    cond_broadcast(cond_t *);
109 int    mutex_init(mutex_t *, int, void *);
110 int    mutex_destroy(mutex_t *);
111 int    mutex_consistent(mutex_t *);
112 int    mutex_lock(mutex_t *);
113 int    mutex_trylock(mutex_t *);
114 int    mutex_unlock(mutex_t *);
115 int    rwlock_init(rwlock_t *, int, void *);
116 int    rwlock_destroy(rwlock_t *);
117 int    rw_rdlock(rwlock_t *);
118 int    rw_wrlock(rwlock_t *);
119 int    rw_unlock(rwlock_t *);
120 int    rw_tryrdlock(rwlock_t *);
121 int    rw_trywrlock(rwlock_t *);
122 int    sema_init(sema_t *, unsigned int, int, void *);
123 int    sema_destroy(sema_t *);
124 int    sema_wait(sema_t *);
125 int    sema_timedwait(sema_t *, const timespec_t *);
126 int    sema_reltimedwait(sema_t *, const timespec_t *);
127 int    sema_post(sema_t *);
128 int    sema_trywait(sema_t *);

130 #else /* __STDC__ */

132 int    _lwp_mutex_lock();
133 int    _lwp_mutex_unlock();
134 int    _lwp_mutex_trylock();
135 int    _lwp_cond_wait();
136 int    _lwp_cond_timedwait();
137 int    _lwp_cond_reltimedwait();
138 int    _lwp_cond_signal();
139 int    _lwp_cond_broadcast();
140 int    _lwp_sema_init();
141 int    _lwp_sema_wait();
142 int    _lwp_sema_trywait();
143 int    _lwp_sema_post();
144 int    cond_init();
145 int    cond_destroy();
146 int    cond_wait();
147 int    cond_timedwait();
148 int    cond_reltimedwait();
149 int    cond_signal();
150 int    cond_broadcast();
151 int    mutex_init();
152 int    mutex_destroy();
153 int    mutex_consistent();
154 int    mutex_lock();
155 int    mutex_trylock();
156 int    mutex_unlock();

```

```

157 int    rlock_init();
158 int    rlock_destroy();
159 int    rw_rdlock();
160 int    rw_wrlock();
161 int    rw_unlock();
162 int    rw_tryrdlock();
163 int    rw_trywrlock();
164 int    sema_init();
165 int    sema_destroy();
166 int    sema_wait();
167 int    sema_timedwait();
168 int    sema_reltimedwait();
169 int    sema_post();
170 int    sema_trywait();

172 #endif /* __STDC__ */

130 #endif /* _ASM */

132 /* "Magic numbers" tagging synchronization object types */
133 #define MUTEX_MAGIC    _MUTEX_MAGIC
134 #define SEMA_MAGIC    _SEMA_MAGIC
135 #define COND_MAGIC    _COND_MAGIC
136 #define RWL_MAGIC    _RWL_MAGIC

138 /*
139  * POSIX.1c Note:
140  * DEFAULTMUTEX is defined same as PTHREAD_MUTEX_INITIALIZER in <pthread.h>.
141  * DEFAULTCV is defined same as PTHREAD_COND_INITIALIZER in <pthread.h>.
142  * DEFAULTRWLOCK is defined same as PTHREAD_RWLOCK_INITIALIZER in <pthread.h>.
143  * Any changes to these macros should be reflected in <pthread.h>
144  */
145 #define DEFAULTMUTEX    \
146     {{0, 0, 0, {USYNC_THREAD}, MUTEX_MAGIC}, \
147     {{{0, 0, 0, 0, 0, 0, 0, 0}}}, 0}
148 #define SHARED_MUTEX    \
149     {{0, 0, 0, {USYNC_PROCESS}, MUTEX_MAGIC}, \
150     {{{0, 0, 0, 0, 0, 0, 0, 0}}}, 0}
151 #define RECURSIVEMUTEX    \
152     {{0, 0, 0, {USYNC_THREAD|LOCK_RECURSIVE}, MUTEX_MAGIC}, \
153     {{{0, 0, 0, 0, 0, 0, 0, 0}}}, 0}
154 #define ERRORCHECKMUTEX    \
155     {{0, 0, 0, {USYNC_THREAD|LOCK_ERRORCHECK}, MUTEX_MAGIC}, \
156     {{{0, 0, 0, 0, 0, 0, 0, 0}}}, 0}
157 #define RECURSIVE_ERRORCHECKMUTEX    \
158     {{0, 0, 0, {USYNC_THREAD|LOCK_RECURSIVE|LOCK_ERRORCHECK}, \
159     MUTEX_MAGIC}, {{{0, 0, 0, 0, 0, 0, 0, 0}}}, 0}
160 #define DEFAULTCV    \
161     {{{0, 0, 0, 0}, USYNC_THREAD, COND_MAGIC}, 0}
162 #define SHARED CV    \
163     {{{0, 0, 0, 0}, USYNC_PROCESS, COND_MAGIC}, 0}
164 #define DEFAULTSEMA    \
165     {0, USYNC_THREAD, SEMA_MAGIC, {0, 0, 0}, {0, 0}}
166 #define SHAREDSEMA    \
167     {0, USYNC_PROCESS, SEMA_MAGIC, {0, 0, 0}, {0, 0}}
168 #define DEFAULTRWLOCK    \
169     {0, USYNC_THREAD, RWL_MAGIC, DEFAULTMUTEX, DEFAULTCV, DEFAULTCV}
170 #define SHARED RWLOCK    \
171     {0, USYNC_PROCESS, RWL_MAGIC, SHARED_MUTEX, SHARED CV, SHARED CV}

173 /*
174  * Tests on lock states.
175  */
176 #define SEMA_HELD(x)    _sema_held(x)
177 #define RW_READ_HELD(x)    _rw_read_held(x)
178 #define RW_WRITE_HELD(x)    _rw_write_held(x)

```

```

179 #define RW_LOCK_HELD(x)    (RW_READ_HELD(x) || RW_WRITE_HELD(x))
180 #define MUTEX_HELD(x)    _mutex_held(x)

182 /*
183  * The following definitions are for assertions which can be checked
184  * statically by tools like lock_lint. You can also define your own
185  * run-time test for each. If you don't, we define them to 1 so that
186  * such assertions simply pass.
187  */
188 #ifndef NO_LOCKS_HELD
189 #define NO_LOCKS_HELD    1
190 #endif
191 #ifndef NO_COMPETING_THREADS
192 #define NO_COMPETING_THREADS    1
193 #endif

195 #ifndef _ASM

241 #ifdef __STDC__

197 /*
198  * The *_held() functions apply equally well to Solaris threads
199  * and to Posix threads synchronization objects, but the formal
200  * type declarations are different, so we just declare the argument
201  * to each *_held() function to be a void *, expecting that they will
202  * be called with the proper type of argument in each case.
203  */
204 int    _sema_held(void *);    /* sema_t or sem_t */
205 int    _rw_read_held(void *);    /* rwlock_t or pthread_rwlock_t */
206 int    _rw_write_held(void *);    /* rwlock_t or pthread_rwlock_t */
207 int    _mutex_held(void *);    /* mutex_t or pthread_mutex_t */

255 #else /* __STDC__ */

257 int    _sema_held();
258 int    _rw_read_held();
259 int    _rw_write_held();
260 int    _mutex_held();

262 #endif /* __STDC__ */

209 /* Pause API */
265 #ifdef __STDC__
210 void    smt_pause(void);
267 #else /* __STDC__ */
268 void    smt_pause();
269 #endif /* __STDC__ */

212 #endif /* _ASM */

214 #ifdef __cplusplus
215 }
    unchanged_portion_omitted

```

new/usr/src/head/syslog.h

1

```
*****
1469 Sat Aug  2 23:27:15 2014
new/usr/src/head/syslog.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _SYSLOG_H
30 #define _SYSLOG_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.1 */

32 #include <sys/feature_tests.h>
33 #include <sys/syslog.h>
34 #include <sys/va_list.h>

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

39 #ifdef __STDC__

40 void openlog(const char *, int, int);
41 void syslog(int, const char *, ...);
42 void closelog(void);
43 int setlogmask(int);
44 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
45 void vsyslog(int, const char *, __va_list);
46 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

49 #else /* __STDC__ */

51 void openlog();
52 void syslog();
53 void closelog();
54 int setlogmask();
55 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
56 void vsyslog();
57 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */


```

new/usr/src/head/syslog.h

2

```
59 #endif /* __STDC__ */

48 #ifdef __cplusplus
49 }
_____unchanged_portion_omitted_____


```

new/usr/src/head/thread.h

1

```
*****
3862 Sat Aug 2 23:27:15 2014
new/usr/src/head/thread.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */
29 #ifndef _THREAD_H
30 #define _THREAD_H
32 /*
33  * thread.h:
34  * definitions needed to use the thread interface except synchronization.
35  * use <synch.h> for thread synchronization.
36  */
38 #ifndef _ASM
39 #include <sys/signal.h>
40 #include <sys/time.h>
41 #include <synch.h>
42 #endif /* _ASM */
44 #ifdef __cplusplus
45 extern "C" {
46 #endif
48 #ifndef _ASM
49 typedef unsigned int thread_t;
50 typedef unsigned int thread_key_t;
51 #endif /* _ASM */
53 #ifndef _ASM
54 #ifdef __STDC__
55 extern int thr_create(void *, size_t, void (*)(void *), void *, long,
56                     thread_t *);
57 extern int thr_join(thread_t, thread_t *, void **);
58 extern int thr_setconcurrency(int);
```

new/usr/src/head/thread.h

2

```
59 extern int thr_getconcurrency(void);
60 extern void thr_exit(void *) __NORETURN;
61 extern thread_t thr_self(void);
63 /*
64  * the definition of thr_sigsetmask() is not strict ansi-c since sigset_t is
65  * not in the strict ansi-c name space. Hence, include the prototype for
66  * thr_sigsetmask() only if strict ansi-c conformance is not turned on.
67  */
68 #if !defined(_STRICT_STDC) || defined(__EXTENSIONS__)
69 extern int thr_sigsetmask(int, const sigset_t *, sigset_t *);
70 #endif
72 /*
73  * the definition of thr_stksegment() is not strict ansi-c since stack_t is
74  * not in the strict ansi-c name space. Hence, include the prototype for
75  * thr_stksegment() only if strict ansi-c conformance is not turned on.
76  */
77 #if !defined(_STRICT_STDC) || defined(__EXTENSIONS__)
78 extern int thr_stksegment(stack_t *);
79 #endif
81 extern int thr_main(void);
82 extern int thr_kill(thread_t, int);
83 extern int thr_suspend(thread_t);
84 extern int thr_continue(thread_t);
85 extern void thr_yield(void);
86 extern int thr_setprio(thread_t, int);
87 extern int thr_getprio(thread_t, int *);
88 extern int thr_keycreate(thread_key_t *, void (*)(void *));
89 extern int thr_keycreate_once(thread_key_t *, void (*)(void *));
90 extern int thr_setspecific(thread_key_t, void *);
91 extern int thr_getspecific(thread_key_t, void **);
92 extern size_t thr_min_stack(void);
95 #else /* __STDC */
97 extern int thr_create();
98 extern int thr_join();
99 extern int thr_setconcurrency();
100 extern int thr_getconcurrency();
101 extern void thr_exit();
102 extern thread_t thr_self();
103 extern int thr_sigsetmask();
104 extern int thr_stksegment();
105 extern int thr_main();
106 extern int thr_kill();
107 extern int thr_suspend();
108 extern int thr_continue();
109 extern void thr_yield();
110 extern int thr_setprio();
111 extern int thr_getprio();
112 extern int thr_keycreate();
113 extern int thr_keycreate_once();
114 extern int thr_setspecific();
115 extern int thr_getspecific();
116 extern size_t thr_min_stack();
118 #endif /* __STDC */
94 #endif /* _ASM */
96 #define THR_MIN_STACK thr_min_stack()
97 /*
98  * thread flags (one word bit mask)
99  */
100 /*
```

```
101 * POSIX.1c Note:
102 * THR_BOUND is defined same as PTHREAD_SCOPE_SYSTEM in <pthread.h>
103 * THR_DETACHED is defined same as PTHREAD_CREATE_DETACHED in <pthread.h>
104 * Any changes in these definitions should be reflected in <pthread.h>
105 */
106 #define THR_BOUND          0x00000001    /* = PTHREAD_SCOPE_SYSTEM */
107 #define THR_NEW_LWP       0x00000002
108 #define THR_DETACHED     0x00000040    /* = PTHREAD_CREATE_DETACHED */
109 #define THR_SUSPENDED    0x00000080
110 #define THR_DAEMON       0x00000100

112 /*
113 * The key to be created by thr_keycreate_once()
114 * must be statically initialized with THR_ONCE_KEY.
115 * This must be the same as PTHREAD_ONCE_KEY_NP in <pthread.h>
116 */
117 #define THR_ONCE_KEY      (thread_key_t)(-1)

119 /*
120 * The available register states returned by thr_getstate().
121 */
122 #define TRS_VALID        0
123 #define TRS_NONVOLATILE 1
124 #define TRS_LWPID       2
125 #define TRS_INVALID     3

127 #ifdef __cplusplus
128 }
   unchanged portion omitted
```

new/usr/src/head/time.h

1

```
*****
9900 Sat Aug  2 23:27:15 2014
new/usr/src/head/time.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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6  * You may not use this file except in compliance with the License.
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8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*      Copyright (c) 1988 AT&T */
22 /*      All Rights Reserved      */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */
31 /*
32 * Copyright 2010 Nexenta Systems, Inc. All rights reserved.
33 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
34 */

35 #ifndef _TIME_H
36 #define _TIME_H

38 #include <sys/feature_tests.h>
39 #include <iso/time_iso.h>
40 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
41     (_POSIX_C_SOURCE > 2) || defined(__EXTENSIONS__)
42 #include <sys/types.h>
43 #include <sys/time_impl.h>
44 #endif /* (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) ... */

46 /*
47 * Allow global visibility for symbols defined in
48 * C++ "std" namespace in <iso/time_iso.h>.
49 */
50 #if __cplusplus >= 199711L
51 using std::size_t;
52 using std::clock_t;
53 using std::time_t;
54 using std::tm;
55 using std::asctime;
56 using std::clock;
57 using std::ctime;
58 using std::difftime;
59 using std::gmtime;
60 using std::localtime;
```

new/usr/src/head/time.h

2

```
61 using std::mktime;
62 using std::time;
63 using std::strftime;
64 #endif

66 #ifdef __cplusplus
67 extern "C" {
68 #endif

70 #ifndef _CLOCKID_T
71 #define _CLOCKID_T
72 typedef int    clockid_t;
73 #endif

75 #ifndef _TIMER_T
76 #define _TIMER_T
77 typedef int    timer_t;
78 #endif

79 #if defined(__STDC__)

80 #if defined(__EXTENSIONS__) || \
81     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
82     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
83 extern struct tm *gmtime_r(const time_t *_RESTRICT_KYWD,
84                          struct tm *_RESTRICT_KYWD);
85 extern struct tm *localtime_r(const time_t *_RESTRICT_KYWD,
86                              struct tm *_RESTRICT_KYWD);
87 #endif

89 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
90     defined(_XPG4) || defined(__EXTENSIONS__)

92 #ifdef _STRPTIME_DONTZERO
93 #ifdef __PRAGMA_REDEFINE_EXTNAME
94 #pragma redefine_extname strptime __strptime_dontzero
95 #else /* __PRAGMA_REDEFINE_EXTNAME */
96 extern char *_strptime_dontzero(const char *, const char *, struct tm *);
97 #define strptime __strptime_dontzero
98 #endif /* __PRAGMA_REDEFINE_EXTNAME */
99 #endif /* _STRPTIME_DONTZERO */

101 extern char *strptime(const char *_RESTRICT_KYWD, const char *_RESTRICT_KYWD,
102                    struct tm *_RESTRICT_KYWD);

104 #endif /* (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))... */

106 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
107     (_POSIX_C_SOURCE > 2) || defined(__EXTENSIONS__)
108 /*
109 * Neither X/Open nor POSIX allow the inclusion of <signal.h> for the
110 * definition of the sigevent structure. Both require the inclusion
111 * of <signal.h> and <time.h> when using the timer_create() function.
112 * However, X/Open also specifies that the sigevent structure be defined
113 * in <time.h> as described in the header <signal.h>. This prevents
114 * compiler warnings for applications that only include <time.h> and not
115 * also <signal.h>. The sigval union and the sigevent structure is
116 * therefore defined both here and in <sys/siginfo.h> which gets included
117 * via inclusion of <signal.h>.
118 */
119 #ifndef _SIGVAL
120 #define _SIGVAL
121 union sigval {
122     int    sival_int;    /* integer value */
123     void   *sival_ptr;  /* pointer value */
124 };
125 #endif

```

unchanged portion omitted

```

137 #endif /* _SIGEVENT */

139 extern int clock_getres(clockid_t, struct timespec *);
140 extern int clock_gettime(clockid_t, struct timespec *);
141 extern int clock_settime(clockid_t, const struct timespec *);
142 extern int timer_create(clockid_t, struct sigevent *_RESTRICT_KYWD,
143     timer_t *_RESTRICT_KYWD);
144 extern int timer_delete(timer_t);
145 extern int timer_getoverrun(timer_t);
146 extern int timer_gettime(timer_t, struct itimerspec *);
147 extern int timer_settime(timer_t, int, const struct itimerspec *_RESTRICT_KYWD,
148     struct itimerspec *_RESTRICT_KYWD);

150 extern int nanosleep(const struct timespec *, struct timespec *);
151 extern int clock_nanosleep(clockid_t, int,
152     const struct timespec *, struct timespec *);

154 #endif /* (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))... */

156 #if !defined(_STRICT_STDC) || defined(__XOPEN_OR_POSIX) || \
157     defined(__EXTENSIONS__)

159 extern void tzset(void);
160 extern char *tzname[2];

162 /* CLK_TCK marked as LEGACY in SUSv2 and removed in SUSv3 */
163 #if !defined(XPG6) || defined(__EXTENSIONS__)
164 #ifndef CLK_TCK
165 extern long _sysconf(int); /* System Private interface to sysconf() */
166 #define CLK_TCK ((clock_t)_sysconf(3)) /* clock ticks per second */
167 /* 3 is _SC_CLK_TCK */
168 #endif
169 #endif /* !defined(XPG6) || defined(__EXTENSIONS__) */

171 #if (!defined(_STRICT_STDC) && !defined(_POSIX_C_SOURCE)) || \
172     defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
173 extern long timezone;
174 extern int daylight;
175 #endif

177 #endif /* !defined(_STRICT_STDC) || defined(__XOPEN_OR_POSIX)... */

179 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
180     defined(__EXTENSIONS__)
181 extern time_t timegm(struct tm *);
182 extern int cftime(char *, char *, const time_t *);
183 extern int ascftime(char *, const char *, const struct tm *);
184 extern long altzone;
185 #endif

187 #if (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
188     defined(XPG4_2) || defined(__EXTENSIONS__)
189 extern struct tm *getdate(const char *);
190 #ifdef _REENTRANT
191 #undef getdate_err
192 #define getdate_err *(int *)_getdate_err_addr()
193 extern int *_getdate_err_addr(void);
194 #else
195 extern int getdate_err;
196 #endif /* _REENTRANT */
197 #endif /* (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))... */

200 #else /* __STDC__ */

202 extern int cftime(), ascftime();
203 extern void tzset();

```

```

204 extern time_t timegm();

206 #ifdef _STRPTIME_DONTZERO
207 #ifdef __PRAGMA_REDEFINE_EXTNAME
208 #pragma redefine_extname strptime __strptime_dontzero
209 #else /* __PRAGMA_REDEFINE_EXTNAME */
210 extern char *_strptime_dontzero();
211 #define strptime __strptime_dontzero
212 #endif /* __PRAGMA_REDEFINE_EXTNAME */
213 #endif /* _STRPTIME_DONTZERO */

215 extern char *strptime();

217 #if defined(__EXTENSIONS__) || \
218     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
219     (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_REENTRANT)
220 extern struct tm *gmtime_r();
221 extern struct tm *localtime_r();
222 #endif

224 extern long timezone, altzone;
225 extern int daylight;
226 extern char *tzname[2];

228 #if !defined(__XOPEN_OR_POSIX) || defined(XPG4_2) || defined(__EXTENSIONS__)
229 extern struct tm *getdate();
230 #ifdef _REENTRANT
231 #undef getdate_err
232 #define getdate_err *(int *)_getdate_err_addr()
233 extern int *_getdate_err_addr();
234 #else
235 extern int getdate_err;
236 #endif /* _REENTRANT */
237 #endif /* !defined(__XOPEN_OR_POSIX) || defined(XPG4_2)... */

239 #endif /* __STDC__ */

199 /*
200 * ctime_r() & asctime_r() prototypes are defined here.
201 */

203 /*
204 * Previous releases of Solaris, starting at 2.3, provided definitions of
205 * various functions as specified in POSIX.1c, Draft 6. For some of these
206 * functions, the final POSIX 1003.1c standard had a different number of
207 * arguments and return values.
208 *
209 * The following segment of this header provides support for the standard
210 * interfaces while supporting applications written under earlier
211 * releases. The application defines appropriate values of the feature
212 * test macros _POSIX_C_SOURCE and _POSIX_PTHREAD_SEMANTICS to indicate
213 * whether it was written to expect the Draft 6 or standard versions of
214 * these interfaces, before including this header. This header then
215 * provides a mapping from the source version of the interface to an
216 * appropriate binary interface. Such mappings permit an application
217 * to be built from libraries and objects which have mixed expectations
218 * of the definitions of these functions.
219 *
220 * For applications using the Draft 6 definitions, the binary symbol is the
221 * same as the source symbol, and no explicit mapping is needed. For the
222 * standard interface, the function func() is mapped to the binary symbol
223 * _posix_func(). The preferred mechanism for the remapping is a compiler
224 * #pragma. If the compiler does not provide such a #pragma, the header file
225 * defines a static function func() which calls the _posix_func() version;
226 * this has to be done instead of #define since POSIX specifies that an
227 * application can #undef the symbol and still be bound to the correct

```



```

228 * implementation. Unfortunately, the statics confuse lint so we fallback to
229 * #define in that case.
230 *
231 * NOTE: Support for the Draft 6 definitions is provided for compatibility
232 * only. New applications/libraries should use the standard definitions.
233 */
234
235 #if defined(__EXTENSIONS__) || defined(_REENTRANT) || \
236 (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)) || \
237 (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)
281 #if defined(__STDC__)
239 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)
241 #ifdef __PRAGMA_REDEFINE_EXTNAME
242 #pragma redefine_extname ctime_r __posix_ctime_r
243 #pragma redefine_extname asctime_r __posix_asctime_r
244 extern char *asctime_r(const struct tm *RESTRICT_KYWD, char *RESTRICT_KYWD);
245 extern char *ctime_r(const time_t *, char *);
246 #else /* __PRAGMA_REDEFINE_EXTNAME */
248 extern char *__posix_asctime_r(const struct tm *RESTRICT_KYWD,
249 char *RESTRICT_KYWD);
250 extern char *__posix_ctime_r(const time_t *, char *);
252 #ifdef __lint
254 #define ctime_r __posix_ctime_r
255 #define asctime_r __posix_asctime_r
257 #else /* !__lint */
259 static char *
260 asctime_r(const struct tm *RESTRICT_KYWD __tm, char *RESTRICT_KYWD __buf)
261 {
262     return (__posix_asctime_r(__tm, __buf));
263 }
264 unchanged portion omitted
271 #endif /* !__lint */
272 #endif /* __PRAGMA_REDEFINE_EXTNAME */
274 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */
276 extern char *asctime_r(const struct tm *, char *, int);
277 extern char *ctime_r(const time_t *, char *, int);
279 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */
325 #else /* __STDC__ */
327 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_PTHREAD_SEMANTICS)
329 #ifdef __PRAGMA_REDEFINE_EXTNAME
330 #pragma redefine_extname asctime_r __posix_asctime_r
331 #pragma redefine_extname ctime_r __posix_ctime_r
332 extern char *asctime_r();
333 extern char *ctime_r();
334 #else /* __PRAGMA_REDEFINE_EXTNAME */
336 extern char *__posix_asctime_r();
337 extern char *__posix_ctime_r();
339 #ifdef __lint

```

```

341 #define asctime_r __posix_asctime_r
342 #define ctime_r __posix_ctime_r
344 #else /* !__lint */
346 static char *
347 asctime_r(__tm, __buf)
348     struct tm *__tm;
349     char *__buf;
350 {
351     return (__posix_asctime_r(__tm, __buf));
352 }
353 static char *
354 ctime_r(__time, __buf)
355     time_t *__time;
356     char *__buf;
357 {
358     return (__posix_ctime_r(__time, __buf));
359 }
361 #endif /* !__lint */
362 #endif /* __PRAGMA_REDEFINE_EXTNAME */
364 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */
366 extern char *asctime_r();
367 extern char *ctime_r();
369 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */
371 #endif /* __STDC__ */
281 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT)... */
284 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
286 #ifndef _LOCALE_T
287 #define _LOCALE_T
288 typedef struct _locale *locale_t;
289 #endif
383 #if defined(__STDC__)
291 extern size_t strftime_l(char *RESTRICT_KYWD, size_t,
292 const char *RESTRICT_KYWD, const struct tm *RESTRICT_KYWD, locale_t);
386 #else /* __STDC__ */
387 extern size_t strftime_l();
388 #endif /* __STDC__ */
294 #endif /* defined(_XPG7) || !defined(_STRICT_SYMBOLS) */
296 #ifdef __cplusplus
297 }
298 unchanged portion omitted

```

new/usr/src/head/tiuser.h

1

\*\*\*\*\*

1414 Sat Aug 2 23:27:16 2014

new/usr/src/head/tiuser.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
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6  * (the "License"). You may not use this file except in compliance
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */
```

```
29 #ifndef _TIUSER_H
30 #define _TIUSER_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.1 */
```

```
32 /*
33  * TLI user interface definitions.
34  */
```

```
36 #include <sys/tiuser.h>
```

```
38 #ifdef __cplusplus
39 extern "C" {
40 #endif
```

```
42 #if defined(_REENTRANT) || defined(_TS_ERRNO) || \
43     _POSIX_C_SOURCE - 0 >= 199506L
44 #if defined(__STDC__)
44 extern int      *__t_errno(void);
45 #else
46 extern int      *__t_errno();
47 #endif
45 #define t_errno (*(__t_errno()))
46 #else
47 extern int t_errno;
48 #endif /* defined(_REENTRANT) || defined(_TS_ERRNO) */
```

```
50 #ifdef __cplusplus
51 }
```

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_

```

*****
2295 Sat Aug 2 23:27:16 2014
new/usr/src/head/ucontext.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*      Copyright (c) 1988 AT&T */
22 /*      All Rights Reserved      */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */

32 #ifndef _UCONTEXT_H
33 #define _UCONTEXT_H

35 #include <sys/ucontext.h>

37 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
38 #include <sys/signinfo.h>
39 #endif

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 #ifdef __sparc
46 #ifdef __PRAGMA_REDEFINE_EXTNAME
47 #pragma redefine_extname      makecontext      __makecontext_v2
48 #else
49 #define makecontext      __makecontext_v2
50 #endif
51 #endif

51 #if defined(__STDC__)

53 extern int getcontext(ucontext_t *) __RETURNS_TWICE;
54 #pragma unknown_control_flow(getcontext)
55 extern int setcontext(const ucontext_t *) __NORETURN;
56 extern int swapcontext(ucontext_t *_RESTRICT_KYWD,
57                       const ucontext_t *_RESTRICT_KYWD);
58 extern void makecontext(ucontext_t *, void(*)(), int, ...);

```

```

60 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
61 extern int walkcontext(const ucontext_t *, int (*)(uintptr_t, int, void *),
62                       void *);
63 extern int printstack(int);
64 extern int addrtosymstr(void *, char *, int);
65 extern int getustack(stack_t **);
66 extern int setustack(stack_t *);

68 extern int stack_getbounds(stack_t *);
69 extern int stack_setbounds(const stack_t *);
70 extern int stack_inbounds(void *);
71 extern int stack_violation(int, const siginfo_t *, const ucontext_t *);

73 extern void *_stack_grow(void *);
74 #endif /* !_XPG4_2 || __EXTENSIONS__ */
73 #endif
74 #else

76 extern int getcontext() __RETURNS_TWICE;
77 #pragma unknown_control_flow(getcontext)
78 extern int setcontext();
79 extern int swapcontext();
80 extern void makecontext();
81 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
82 extern int walkcontext();
83 extern int printstack();
84 extern int addrtosymstr();
85 extern int getustack();
86 extern int setustack();

88 extern int stack_getbounds();
89 extern int stack_setbounds();
90 extern int stack_inbounds();
91 extern int stack_violation();

93 extern void *_stack_grow();
94 #endif
95 #endif

76 #ifdef __cplusplus
77 }

```

unchanged portion omitted

```

*****
2110 Sat Aug 2 23:27:16 2014
new/usr/src/head/ucred.h
remove support for non-ANSI compilation
*****
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11 * and limitations under the License.
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 #ifndef _UCRED_H_
29 #define _UCRED_H_

29 #pragma ident      "%Z%M% %I%      %E% SMI"

31 #include <sys/types.h>
32 #include <sys/priv.h>
33 #include <sys/tsol/label.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 typedef struct ucred_s ucred_t;

41 /*
42  * library functions prototype.
43  */
44 #if      defined(__STDC__)

45 extern ucred_t *ucred_get(pid_t pid);

47 extern void ucred_free(ucred_t *);

49 extern uid_t ucred_geteuid(const ucred_t *);
50 extern uid_t ucred_getruid(const ucred_t *);
51 extern uid_t ucred_getsuid(const ucred_t *);
52 extern gid_t ucred_getegid(const ucred_t *);
53 extern gid_t ucred_getrgid(const ucred_t *);
54 extern gid_t ucred_getsgid(const ucred_t *);
55 extern int   ucred_getgroups(const ucred_t *, const gid_t **);

57 extern const priv_set_t *ucred_getprivset(const ucred_t *, priv_ptype_t);
58 extern uint_t ucred_getpflags(const ucred_t *, uint_t);

```

```

60 extern pid_t ucred_getpid(const ucred_t *); /* for door_cred compatibility */
62 extern size_t ucred_size(void);

64 extern int getpeerucred(int, ucred_t **);

66 extern zoneid_t ucred_getzoneid(const ucred_t *);

68 extern bslabel_t *ucred_getlabel(const ucred_t *);

70 extern projid_t ucred_getprojid(const ucred_t *);

73 #else /* Non ANSI */

75 extern ucred_t *ucred_get(/* pid_t pid */);

77 extern void ucred_free(/* ucred_t * */);

79 extern uid_t ucred_geteuid(/* ucred_t * */);
80 extern uid_t ucred_getruid(/* ucred_t * */);
81 extern uid_t ucred_getsuid(/* ucred_t * */);
82 extern gid_t ucred_getegid(/* ucred_t * */);
83 extern gid_t ucred_getrgid(/* ucred_t * */);
84 extern gid_t ucred_getsgid(/* ucred_t * */);
85 extern int   ucred_getgroups(/* ucred_t *, gid_t ** */);

87 extern priv_set_t *ucred_getprivset(/* ucred_t *, priv_ptype_t */);
88 extern uint_t ucred_getpflags(/* ucred_t *, uint_t */);

90 extern pid_t ucred_getpid(/* ucred_t * */);

92 extern size_t ucred_size(/* void */);

94 extern int getpeerucred(/* int, ucred_t ** */);

96 extern zoneid_t ucred_getzoneid(/* ucred_t * */);

98 extern bslabel_t *ucred_getlabel(/* const ucred_t * */);

100 extern projid_t ucred_getprojid(/* ucred_t * */);

102 #endif /* __STDC__ */

72 #ifdef __cplusplus
73 }
_____
unchanged_portion_omitted_

```

new/usr/src/head/ulimit.h

1

```
*****
1151 Sat Aug  2 23:27:16 2014
new/usr/src/head/ulimit.h
remove support for non-ANSI compilation
*****
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21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _ULIMIT_H
30 #define _ULIMIT_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.4 */

32 #include <sys/ulimit.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

37 #ifdef __STDC__
38 extern long ulimit(int, ...);
39 #else
40 extern long ulimit();
41 #endif

40 #ifdef __cplusplus
41 }
  unchanged_portion_omitted_

```

new/usr/src/head/unistd.h

1

```
*****
26828 Sat Aug 2 23:27:16 2014
new/usr/src/head/unistd.h
remove support for non-ANSI compilation
*****
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16 * fields enclosed by brackets "[]" replaced with your own identifying
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19 * CDDL HEADER END
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21
22 /*
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24 * Copyright (c) 2013 Gary Mills
25 *
26 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
27 */
28
29 /*      Copyright (c) 1988 AT&T */
30 /*      All Rights Reserved */
31
32 /* Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved. */
33
34 #ifndef _UNISTD_H
35 #define _UNISTD_H
36
37 #include <sys/feature_tests.h>
38
39 #include <sys/types.h>
40 #include <sys/unistd.h>
41
42 #ifdef __cplusplus
43 extern "C" {
44 #endif
45
46 /* Symbolic constants for the "access" routine: */
47 #define R_OK 4 /* Test for Read permission */
48 #define W_OK 2 /* Test for Write permission */
49 #define X_OK 1 /* Test for eXecute permission */
50 #define F_OK 0 /* Test for existence of File */
51
52 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
53 #define F_ULOCK 0 /* Unlock a previously locked region */
54 #define F_LOCK 1 /* Lock a region for exclusive use */
55 #define F_TLOCK 2 /* Test and lock a region for exclusive use */
56 #define F_TEST 3 /* Test a region for other processes locks */
57 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2)... */
58
59 /* Symbolic constants for the "lseek" routine: */
60
61 #ifndef SEEK_SET
```

new/usr/src/head/unistd.h

2

```
62 #define SEEK_SET 0 /* Set file pointer to "offset" */
63 #endif
64
65 #ifndef SEEK_CUR
66 #define SEEK_CUR 1 /* Set file pointer to current plus "offset" */
67 #endif
68
69 #ifndef SEEK_END
70 #define SEEK_END 2 /* Set file pointer to EOF plus "offset" */
71 #endif
72
73 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
74 #ifndef SEEK_DATA
75 #define SEEK_DATA 3 /* Set file pointer to next data past offset */
76 #endif
77
78 #ifndef SEEK_HOLE
79 #define SEEK_HOLE 4 /* Set file pointer to next hole past offset */
80 #endif
81 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
82
83 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
84 /* Path names: */
85 #define GF_PATH "/etc/group" /* Path name of the "group" file */
86 #define PF_PATH "/etc/passwd" /* Path name of the "passwd" file */
87 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
88
89 /*
90 * compile-time symbolic constants,
91 * Support does not mean the feature is enabled.
92 * Use pathconf/sysconf to obtain actual configuration value.
93 */
94
95 /* Values unchanged in UNIX 03 */
96 #define _POSIX_ASYNC_IO 1
97 #define _POSIX_JOB_CONTROL 1
98 #define _POSIX_SAVED_IDS 1
99 #define _POSIX_SYNC_IO 1
100
101 /*
102 * POSIX.1b compile-time symbolic constants.
103 */
104 #if defined(__XPG6)
105 #define _POSIX_ASYNCHRONOUS_IO 200112L
106 #define _POSIX_FSYNC 200112L
107 #define _POSIX_MAPPED_FILES 200112L
108 #define _POSIX_MEMLOCK 200112L
109 #define _POSIX_MEMLOCK_RANGE 200112L
110 #define _POSIX_MEMORY_PROTECTION 200112L
111 #define _POSIX_MESSAGE_PASSING 200112L
112 #define _POSIX_PRIORITY_SCHEDULING 200112L
113 #define _POSIX_REALTIME_SIGNALS 200112L
114 #define _POSIX_SEMAPHORES 200112L
115 #define _POSIX_SHARED_MEMORY_OBJECTS 200112L
116 #define _POSIX_SYNCHRONIZED_IO 200112L
117 #else
118 #define _POSIX_ASYNCHRONOUS_IO 1
119 #define _POSIX_FSYNC 1
120 #define _POSIX_MAPPED_FILES 1
121 #define _POSIX_MEMLOCK 1
122 #define _POSIX_MEMLOCK_RANGE 1
123 #define _POSIX_MEMORY_PROTECTION 1
124 #define _POSIX_MESSAGE_PASSING 1
125 #define _POSIX_PRIORITY_SCHEDULING 1
126 #define _POSIX_REALTIME_SIGNALS 1
127 #define _POSIX_SEMAPHORES 1

```

```

128 #define _POSIX_SHARED_MEMORY_OBJECTS 1
129 #define _POSIX_SYNCHRONIZED_IO 1
130 #endif

132 /*
133  * POSIX.1c compile-time symbolic constants.
134  */
135 #if defined(_XPG6)
136 #define _POSIX_THREAD_SAFE_FUNCTIONS 200112L
137 #define _POSIX_THREADS 200112L
138 #define _POSIX_THREAD_ATTR_STACKADDR 200112L
139 #define _POSIX_THREAD_ATTR_STACKSIZE 200112L
140 #define _POSIX_THREAD_PROCESS_SHARED 200112L
141 #define _POSIX_THREAD_PRIORITY_SCHEDULING 200112L
142 #define _POSIX_TIMERS 200112L
143 #else
144 #define _POSIX_THREAD_SAFE_FUNCTIONS 1
145 #define _POSIX_THREADS 1
146 #define _POSIX_THREAD_ATTR_STACKADDR 1
147 #define _POSIX_THREAD_ATTR_STACKSIZE 1
148 #define _POSIX_THREAD_PROCESS_SHARED 1
149 #define _POSIX_THREAD_PRIORITY_SCHEDULING 1
150 #define _POSIX_TIMERS 1
151 #endif

153 /* New in UNIX 03 */
154 #define _POSIX_ADVISORY_INFO 200112L
155 #define _POSIX_BARRIERS 200112L
156 #define _POSIX_CLOCK_SELECTION 200112L
157 #define _POSIX_IPV6 200112L
158 #define _POSIX_MONOTONIC_CLOCK 200112L
159 #define _POSIX_RAW_SOCKETS 200112L
160 #define _POSIX_READER_WRITER_LOCKS 200112L
161 #define _POSIX_SPAWN 200112L
162 #define _POSIX_SPIN_LOCKS 200112L
163 #define _POSIX_TIMEOUTS 200112L

165 /*
166  * Support for the POSIX.1 mutex protocol attribute. For realtime applications
167  * which need mutexes to support priority inheritance/ceiling.
168  */
169 #if defined(_XPG6)
170 #define _POSIX_THREAD_PRIO_INHERIT 200112L
171 #define _POSIX_THREAD_PRIO_PROTECT 200112L
172 #else
173 #define _POSIX_THREAD_PRIO_INHERIT 1
174 #define _POSIX_THREAD_PRIO_PROTECT 1
175 #endif

177 #ifndef _POSIX_VDISABLE
178 #define _POSIX_VDISABLE 0
179 #endif

181 #ifndef NULL
182 #if defined(_LP64)
183 #define NULL 0L
184 #else
185 #define NULL 0
186 #endif
187 #endif

189 #define STDIN_FILENO 0
190 #define STDOUT_FILENO 1
191 #define STDERR_FILENO 2

193 /*

```

```

194  * Large File Summit-related announcement macros. The system supports both
195  * the additional and transitional Large File Summit interfaces. (The final
196  * two macros provide a finer granularity breakdown of _LFS64_LARGEFILE.)
197  */
198 #define _LFS_LARGEFILE 1
199 #define _LFS64_LARGEFILE 1
200 #define _LFS64_STDIO 1
201 #define _LFS64_ASYNCHRONOUS_IO 1

203 /* large file compilation environment setup */
204 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
205 #ifdef __PRAGMA_REDEFINE_EXTNAME
206 #pragma redefine_extname ftruncate ftruncate64
207 #pragma redefine_extname lseek lseek64
208 #pragma redefine_extname pread pread64
209 #pragma redefine_extname pwrite pwrite64
210 #pragma redefine_extname truncate truncate64
211 #pragma redefine_extname lockf lockf64
212 #pragma redefine_extname tell tell64
213 #else /* __PRAGMA_REDEFINE_EXTNAME */
214 #define ftruncate ftruncate64
215 #define lseek lseek64
216 #define pread pread64
217 #define pwrite pwrite64
218 #define truncate truncate64
219 #define lockf lockf64
220 #define tell tell64
221 #endif /* __PRAGMA_REDEFINE_EXTNAME */
222 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

224 /* In the LP64 compilation environment, the APIs are already large file */
225 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
226 #ifdef __PRAGMA_REDEFINE_EXTNAME
227 #pragma redefine_extname ftruncate64 ftruncate
228 #pragma redefine_extname lseek64 lseek
229 #pragma redefine_extname pread64 pread
230 #pragma redefine_extname pwrite64 pwrite
231 #pragma redefine_extname truncate64 truncate
232 #pragma redefine_extname lockf64 lockf
233 #pragma redefine_extname tell64 tell
234 #else /* __PRAGMA_REDEFINE_EXTNAME */
235 #define ftruncate64 ftruncate
236 #define lseek64 lseek
237 #define pread64 pread
238 #define pwrite64 pwrite
239 #define truncate64 truncate
240 #define lockf64 lockf
241 #define tell64 tell
242 #endif /* __PRAGMA_REDEFINE_EXTNAME */
243 #endif /* !_LP64 && _LARGEFILE64_SOURCE */

244 #if defined(__STDC__)

245 extern int access(const char *, int);
246 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
247 extern int acct(const char *);
248 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
249 extern unsigned alarm(unsigned);
250 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
251 #if !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2) && !defined(_XPG6)) || \
252     defined(__EXTENSIONS__)
253 extern int brk(void *);
254 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2)... */
255 extern int chdir(const char *);
256 extern int chown(const char *, uid_t, gid_t);
257 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */

```

```

258 #if !defined(_POSIX_C_SOURCE) || (defined(_XOPEN_SOURCE) && \
259     !defined(_XPG6)) || defined(__EXTENSIONS__)
260 extern int chroot(const char *);
261 #endif /* !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE)... */
262 extern int close(int);
263 #if defined(_XPG4) || defined(__EXTENSIONS__)
264 extern size_t confstr(int, char *, size_t);
265 extern char *crypt(const char *, const char *);
266 #endif /* defined(_XPG4) || defined(__EXTENSIONS__) */
267 #if !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE) || \
268     defined(__EXTENSIONS__)
269 extern char *ctermid(char *);
270 #endif /* !defined(_POSIX_C_SOURCE) ... */
271 #if !defined(_XOPEN_OR_POSIX) || defined(_REENTRANT) || defined(__EXTENSIONS__)
272 extern char *ctermid_r(char *);
273 #endif /* !defined(_XOPEN_OR_POSIX) || defined(_REENTRANT) ... */
274 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
275 #if !defined(_XPG6) || defined(__EXTENSIONS__)
276 extern char *cuserid(char *);
277 #endif
278 extern int dup(int);
279 extern int dup2(int, int);
280 extern int dup3(int, int, int);
281 #if defined(_XPG4) || defined(__EXTENSIONS__)
282 extern void encrypt(char *, int);
283 #endif /* defined(_XPG4) || defined(__EXTENSIONS__) */
284 #if !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
285 extern void endusershell(void);
286 #endif /* !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
287 extern int execl(const char *, const char *, ...);
288 extern int execlp(const char *, const char *, ...);
289 extern int execlp(const char *, const char *, ...);
290 extern int execvp(const char *, char *const *);
291 extern int execve(const char *, char *const *, char *const *);
292 extern int execvp(const char *, char *const *);
293 extern void _exit(int)
294     _NORETURN;
295 /*
296  * The following fattach prototype is duplicated in <stropts.h>. The
297  * duplication is necessitated by XPG4.2 which requires the prototype
298  * be defined in <stropts.h>.
299  */
300 #if !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
301 extern int fattach(int, const char *);
302 #endif /* !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
303 #if !defined(_XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
304 extern int fchdir(int);
305 extern int fchown(int, uid_t, gid_t);
306 #endif /* !defined(_XOPEN_OR_POSIX) || defined(_XPG4_2)... */
307 #if !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
308 extern int fchroot(int);
309 #endif /* !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
310 #if !defined(_XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2) || \
311     defined(__EXTENSIONS__)
312 extern int fdatsync(int);
313 #endif /* !defined(_XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2)... */
314 /*
315  * The following fdetach prototype is duplicated in <stropts.h>. The
316  * duplication is necessitated by XPG4.2 which requires the prototype
317  * be defined in <stropts.h>.
318  */
319 #if !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
320 extern int fdetach(const char *);
321 #endif /* !defined(_XOPEN_OR_POSIX)... */
322 extern pid_t fork(void);
323 #if !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

```

```

324 extern pid_t fork1(void);
325 extern pid_t forkall(void);
326 #endif /* !defined(_XOPEN_OR_POSIX)... */
327 extern long fpathconf(int, int);
328 #if !defined(_POSIX_C_SOURCE) || (_POSIX_C_SOURCE > 2) || \
329     defined(__EXTENSIONS__)
330 extern int fsync(int);
331 #endif /* !defined(_POSIX_C_SOURCE) || (_POSIX_C_SOURCE > 2)... */
332 #if !defined(_XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2) || defined(_XPG4_2) || \
333     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
334     defined(__EXTENSIONS__)
335 extern int ftruncate(int, off_t);
336 #endif /* !defined(_XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2)... */
337 extern char *getcwd(char *, size_t);
338 #if !defined(_XOPEN_OR_POSIX) || (defined(_XPG4_2) && !defined(_XPG6)) || \
339     defined(__EXTENSIONS__)
340 extern int getdtablesize(void);
341 #endif
342 extern gid_t getegid(void);
343 extern uid_t geteuid(void);
344 extern gid_t getgid(void);
345 extern int getgroups(int, gid_t *);
346 #if !defined(_XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
347 extern long gethostid(void);
348 #endif
349 #if defined(_XPG4_2)
350 extern int gethostname(char *, size_t);
351 #elif !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
352 extern int gethostname(char *, int);
353 #endif
354
355 #ifndef __GETLOGIN_DEFINED /* Avoid duplicate in stdlib.h */
356 #define __GETLOGIN_DEFINED
357 #ifndef __USE_LEGACY_LOGNAME
358 #ifdef __PRAGMA_REDEFINE_EXTNAME
359 #pragma redefine_extname getlogin getloginx
360 #else /* __PRAGMA_REDEFINE_EXTNAME */
361 extern char *getloginx(void);
362 #define getlogin getloginx
363 #endif /* __PRAGMA_REDEFINE_EXTNAME */
364 #endif /* __USE_LEGACY_LOGNAME */
365 extern char *getlogin(void);
366 #endif /* __GETLOGIN_DEFINED */
367
368 #if defined(_XPG4) || defined(__EXTENSIONS__)
369 extern int getopt(int, char *const *, const char *);
370 extern char *optarg;
371 extern int opterr, optind, optopt;
372 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
373 #if !defined(_XPG6) || defined(__EXTENSIONS__)
374 extern char *getpass(const char *);
375 #endif
376 #endif /* defined(_XPG4) || defined(__EXTENSIONS__) */
377 #if !defined(_XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
378 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
379 #if !defined(_XPG6) || defined(__EXTENSIONS__)
380 extern int getpagesize(void);
381 #endif
382 extern pid_t getpgid(pid_t);
383 #endif /* !defined(_XOPEN_OR_POSIX) || defined(_XPG4_2)... */
384 extern pid_t getpid(void);
385 extern pid_t getppid(void);
386 extern pid_t getpgrp(void);
387
388 #if !defined(_XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
389 char *gettxt(const char *, const char *);

```



```

390 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
391 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
392 extern pid_t getsid(pid_t);
393 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2)... */
394 extern uid_t getuid(void);
395 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
396 extern char *getusershell(void);
397 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
398 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
399 extern char *getwd(char *);
400 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2)... */
401 /*
402  * The following ioctl prototype is duplicated in <stropts.h>. The
403  * duplication is necessitated by XPG4.2 which requires the prototype
404  * to be defined in <stropts.h>.
405  */
406 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
407 extern int ioctl(int, int, ...);
408 extern int isaexec(const char *, char *const *, char *const *);
409 extern int issetugid(void);
410 #endif
411 extern int isatty(int);
412 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
413 extern int lchown(const char *, uid_t, gid_t);
414 #endif
415 extern int link(const char *, const char *);
416 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
417 extern off_t llseek(int, off_t, int);
418 #endif
419 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || \
420     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
421     defined(__EXTENSIONS__)
422 extern int lockf(int, int, off_t);
423 #endif
424 extern off_t lseek(int, off_t, int);
425 #if !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE) || \
426     defined(__EXTENSIONS__)
427 extern int nice(int);
428 #endif /* !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE)... */
429 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
430 extern int mincore(caddr_t, size_t, char *);
431 #endif
432 extern long pathconf(const char *, int);
433 extern int pause(void);
434 extern int pipe(int *);
435 extern int pipe2(int *, int);
436 #if !defined(_POSIX_C_SOURCE) || defined(__XPG5) || \
437     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
438     defined(__EXTENSIONS__)
439 extern ssize_t pread(int, void *, size_t, off_t);
440 #endif
441 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
442 extern void profil(unsigned short *, size_t, unsigned long, unsigned int);
443 #endif
444 /*
445  * pthread_atfork() is also declared in <pthread.h> as per SUSv3. The
446  * declarations are identical. A change to either one may also require
447  * appropriate namespace updates in order to avoid redeclaration
448  * warnings in the case where both prototypes are exposed via inclusion
449  * of both <pthread.h> and <unistd.h>.
450  */
451 #if !defined(__XOPEN_OR_POSIX) || \
452     ((_POSIX_C_SOURCE > 2) && !defined(__XPG6)) || \
453     defined(__EXTENSIONS__)
454 extern int pthread_atfork(void (*) (void), void (*) (void), void (*) (void));
455 #endif /* !defined(__XOPEN_OR_POSIX) || ((_POSIX_C_SOURCE > 2) ... */

```

```

456 #if !defined(_LP64) && \
457     (!defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__))
458 extern int ptrace(int, pid_t, int, int);
459 #endif
460 #if !defined(_POSIX_C_SOURCE) || defined(__XPG5) || \
461     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
462     defined(__EXTENSIONS__)
463 extern ssize_t pwrite(int, const void *, size_t, off_t);
464 #endif
465 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
466 /* per RFC 3542; This is also defined in netdb.h */
467 extern int rcmd_af(char **, unsigned short, const char *, const char *,
468     const char *, int *, int);
469 #endif
470 extern ssize_t read(int, void *, size_t);
471 #if !defined(__XOPEN_OR_POSIX) || \
472     defined(__XPG4_2) || defined(__EXTENSIONS__)
473 extern ssize_t readlink(const char *_RESTRICT_KYWD, char *_RESTRICT_KYWD,
474     size_t);
475 #endif
476 #if (!defined(__XOPEN_OR_POSIX) || (defined(__XPG3) && !defined(__XPG4))) || \
477     defined(__EXTENSIONS__)
478 #if __cplusplus >= 199711L
479 namespace std {
480 #endif
481 extern int rename(const char *, const char *);
482 #if __cplusplus >= 199711L
483 } /* end of namespace std */
484 #endif
485 using std::rename;
486 #endif /* __cplusplus >= 199711L */
487 #endif /* (!defined(__XOPEN_OR_POSIX) || (defined(__XPG3)... */
488 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
489 extern int resolvepath(const char *, char *, size_t);
490 /* per RFC 3542; This is also defined in netdb.h */
491 extern int rexec_af(char **, unsigned short, const char *, const char *,
492     const char *, int *, int);
493 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
494 extern int rmdir(const char *);
495 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
496 /* per RFC 3542; This is also defined in netdb.h */
497 extern int rresvport_af(int *, int);
498 #endif
499
500 #if !defined(__XOPEN_OR_POSIX) || (defined(__XPG4_2) && !defined(__XPG6)) || \
501     defined(__EXTENSIONS__)
502 extern void *sbrk(intptr_t);
503 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(__XPG4_2)... */
504 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG6) || defined(__EXTENSIONS__)
505 extern int setegid(gid_t);
506 extern int seteuid(uid_t);
507 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG6) ... */
508 extern int setgid(gid_t);
509 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
510 extern int setgroups(int, const gid_t *);
511 extern int sethostname(char *, int);
512 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
513 extern int setpgid(pid_t, pid_t);
514 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
515 extern pid_t setpgrp(void);
516 extern int setregid(gid_t, gid_t);
517 extern int setreuid(uid_t, uid_t);
518 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2)... */
519 extern pid_t setsid(void);
520 extern int setuid(uid_t);
521 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

```

```

522 extern void setusershell(void);
523 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
524 extern unsigned sleep(unsigned);
525 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
526 extern int stime(const time_t *);
527 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
528 #if defined(_XPG4)
529 /* __EXTENSIONS__ makes the SVID Third Edition prototype in stdlib.h visible */
530 extern void swab(const void *_RESTRICT_KYWD, void *_RESTRICT_KYWD, ssize_t);
531 #endif /* defined(_XPG4) */
532 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
533 extern int symlink(const char *, const char *);
534 extern void sync(void);
535 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) */
536 #if defined(_XPG5) && !defined(_XPG6)
537 #ifdef __PRAGMA_REDEFINE_EXTNAME
538 #pragma redefine_extname sysconf __sysconf_xpg5
539 #else /* __PRAGMA_REDEFINE_EXTNAME */
540 #define sysconf __sysconf_xpg5
541 #endif /* __PRAGMA_REDEFINE_EXTNAME */
542 #endif /* defined(_XPG5) && !defined(_XPG6) */
543 extern long sysconf(int);
544 extern pid_t tcgetpgrp(int);
545 extern int tcsetpgrp(int, pid_t);
546 #if !defined(__XOPEN_OR_POSIX) || \
547     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
548     defined(__EXTENSIONS__)
549 extern off_t tell(int);
550 #endif /* !defined(__XOPEN_OR_POSIX)... */
551 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || \
552     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
553     defined(__EXTENSIONS__)
554 extern int truncate(const char *, off_t);
555 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
556 extern char *ttyname(int);
557 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
558 extern useconds_t ualarm(useconds_t, useconds_t);
559 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
560 extern int unlink(const char *);
561 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
562 extern int usleep(useconds_t);
563 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
564 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
565 extern pid_t vfork(void) _RETURNS_TWICE;
566 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
567 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
568 extern void vhangup(void);
569 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
570 extern ssize_t write(int, const void *, size_t);
571 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
572 extern void yield(void);
573 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

575 #if !defined(__XOPEN_OR_POSIX) || defined(_ATFILE_SOURCE) || \
576     defined(__EXTENSIONS__)
577 /* || defined(_XPG7) */
578 extern int faccessat(int, const char *, int, int);
579 extern int fchownat(int, const char *, uid_t, gid_t, int);
580 extern int linkat(int, const char *, int, const char *, int);
581 extern ssize_t readlinkat(int, const char *_RESTRICT_KYWD,
582     char *_RESTRICT_KYWD, size_t);
583 extern int renameat(int, const char *, int, const char *);
584 extern int symlinkat(const char *, int, const char *);
585 extern int unlinkat(int, const char *, int);
586 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_ATFILE_SOURCE)... */
587 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

```

```

588 extern int get_nprocs(void);
589 extern int get_nprocs_conf(void);
590 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

592 /* transitional large file interface versions */
593 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
594     !defined(__PRAGMA_REDEFINE_EXTNAME))
595 extern int ftruncate64(int, off64_t);
596 extern off64_t lseek64(int, off64_t, int);
597 extern ssize_t pread64(int, void *, size_t, off64_t);
598 extern ssize_t pwrite64(int, const void *, size_t, off64_t);
599 extern off64_t tell64(int);
600 extern int truncate64(const char *, off64_t);
601 extern int lockf64(int, int, off64_t);
602 #endif /* _LARGEFILE64_SOURCE */

605 #else /* __STDC__ */

607 extern int access();
608 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
609 extern int acct();
610 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
611 extern unsigned alarm();
612 #if !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2) && !defined(_XPG6)) || \
613     defined(__EXTENSIONS__)
614 extern int brk();
615 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2)... */
616 extern int chdir();
617 extern int chown();
618 #if !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE) || \
619     defined(__EXTENSIONS__)
620 extern int chroot();
621 #endif /* (!defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE)... */
622 extern int close();
623 #if defined(_XPG4) || defined(__EXTENSIONS__)
624 extern size_t confstr();
625 extern char *crypt();
626 #endif /* defined(_XPG4) || defined(__EXTENSIONS__) */
627 #if !defined(_POSIX_C_SOURCE) || defined(_XPG3) || defined(__EXTENSIONS__)
628 extern char *ctermid();
629 #endif /* (!defined(_POSIX_C_SOURCE) || defined(_XPG3)... */
630 #if !defined(__XOPEN_OR_POSIX) || defined(_REENTRANT) || defined(__EXTENSIONS__)
631 extern char *ctermid_r();
632 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_REENTRANT) ... */
633 #if !defined(_XPG6) || defined(__EXTENSIONS__)
634 extern char *cuserid();
635 #endif
636 extern int dup();
637 extern int dup2();
638 extern int dup3();
639 #if defined(_XPG4) || defined(__EXTENSIONS__)
640 extern void encrypt();
641 #endif /* defined(_XPG4) || defined(__EXTENSIONS__) */
642 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
643 extern void endusershell();
644 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
645 extern int execl();
646 extern int execle();
647 extern int execlp();
648 extern int execlv();
649 extern int execve();
650 extern int execvp();
651 extern void _exit();
652 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
653 extern int fattach();
654 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

```

```

604 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
605 extern int fchdir();
606 extern int fchown();
607 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
608 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
609 extern int fchroot();
610 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
611 #if !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2) || \
612     defined(__EXTENSIONS__)
613 extern int fdatsync();
614 #endif /* !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2)... */
615 #if !defined(__XOPEN_OR_POSIX)
616 extern int fdetach();
617 #endif /* !defined(__XOPEN_OR_POSIX) */
618 extern pid_t fork();
619 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
620 extern pid_t fork1();
621 extern pid_t forkall();
622 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
623 extern long fpathconf();
624 #if !defined(_POSIX_C_SOURCE) || (_POSIX_C_SOURCE > 2) || \
625     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
626     defined(__EXTENSIONS__)
627 extern int fsync();
628 #endif /* !defined(_POSIX_C_SOURCE) || (_POSIX_C_SOURCE > 2)... */
629 #if !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2) || defined(_XPG4_2) || \
630     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
631     defined(__EXTENSIONS__)
632 extern int ftruncate();
633 #endif /* !defined(__XOPEN_OR_POSIX) (_POSIX_C_SOURCE > 2)... */
634 extern char *getcwd();
635 #if !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2) && !defined(_XPG6)) || \
636     defined(__EXTENSIONS__)
637 extern int getdtablesize();
638 #endif
639 extern gid_t getegid();
640 extern uid_t geteuid();
641 extern gid_t getgid();
642 extern int getgroups();
643 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
644 extern long gethostid();
645 #endif
646 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
647 extern int gethostnamel();
648 #endif
649
650 #ifndef __GETLOGIN_DEFINED /* Avoid duplicate in stdlib.h */
651 #define __GETLOGIN_DEFINED
652 #ifndef __USE_LEGACY_LOGNAME
653 #ifdef __PRAGMA_REDEFINE_EXTNAME
654 #pragma redefine_extname getlogin getloginx
655 #else /* __PRAGMA_REDEFINE_EXTNAME */
656 extern char *getloginx();
657 #define getlogin getloginx
658 #endif /* __PRAGMA_REDEFINE_EXTNAME */
659 #endif /* __USE_LEGACY_LOGNAME */
660 extern char *getlogin();
661 #endif /* __GETLOGIN_DEFINED */
662
663 #if defined(_XPG4) || defined(__EXTENSIONS__)
664 extern int getopt();
665 extern char *optarg;
666 extern int opterr, optind, optopt;
667 #if !defined(_XPG6) || defined(__EXTENSIONS__)
668 extern char *getpass();
669 #endif
670 #endif /* defined(_XPG4) || defined(__EXTENSIONS__) */

```

```

721 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
722 #if !defined(_XPG6) || defined(__EXTENSIONS__)
723 extern int getpagesize();
724 #endif
725 extern pid_t getpgid();
726 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
727 extern pid_t getpid();
728 extern pid_t getppid();
729 extern pid_t getpgrp();
730 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
731 char *gettxt();
732 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
733 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
734 extern pid_t getsid();
735 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) */
736 extern uid_t getuid();
737 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
738 extern char *getusershell();
739 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
740 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
741 extern char *getwd();
742 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
743 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
744 extern int ioctl();
745 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
746 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
747 extern int isaexec();
748 extern int issetugid();
749 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
750 extern int isatty();
751 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
752 extern int lchown();
753 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) */
754 extern int link();
755 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
756 extern offset_t lseek();
757 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
758 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || \
759     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
760     defined(__EXTENSIONS__)
761 extern int lockf();
762 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
763 extern off_t lseek();
764 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
765 extern int mincore();
766 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
767 #if !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE) || \
768     defined(__EXTENSIONS__)
769 extern int nice();
770 #endif /* !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE)... */
771 extern long pathconf();
772 extern int pause();
773 extern int pipe();
774 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG5) || \
775     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
776     defined(__EXTENSIONS__)
777 extern ssize_t pread();
778 #endif
779 #if !defined(_LP64) && \
780     (!defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__))
781 extern void profil();
782 extern int ptrace();
783 #endif
784 #if !defined(__XOPEN_OR_POSIX) || \
785     ((_POSIX_C_SOURCE > 2) && !defined(_XPG6)) || \
786     defined(__EXTENSIONS__)

```

```

787 extern int pthread_atfork();
788 #endif /* !defined(__XOPEN_OR_POSIX) || ((_POSIX_C_SOURCE > 2) ... */
789 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG5) || \
790     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
791     defined(__EXTENSIONS__)
792 extern ssize_t pwrite();
793 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG5) */
794 extern ssize_t read();
795 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
796 /* per RFC 3542; This is also defined in netdb.h */
797 extern int rcmd_af();
798 #endif
799 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
800 extern ssize_t readlink();
801 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
802 #if (!defined(__XOPEN_OR_POSIX) || (defined(_XPG3) && !defined(_XPG4))) || \
803     defined(__EXTENSIONS__)
804 extern int rename();
805 #endif /* (!defined(__XOPEN_OR_POSIX) || (defined(_XPG3)... */
806 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
807 extern int resolvepath();
808 /* per RFC 3542; This is also defined in netdb.h */
809 extern int rexec_af();
810 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
811 extern int rmdir();
812 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
813 /* per RFC 3542; This is also defined in netdb.h */
814 extern int rresvport_af();
815 #endif
816 #if !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2) && !defined(_XPG6)) || \
817     defined(__EXTENSIONS__)
818 extern void *sbrk();
819 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(_XPG4_2)... */
820 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
821 extern int setegid();
822 extern int seteuid();
823 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG6) ... */
824 extern int setgid();
825 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
826 extern int setgroups();
827 extern int sethostname();
828 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
829 extern int setpgid();
830 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
831 extern pid_t setpgprp();
832 extern int setregid();
833 extern int setreuid();
834 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
835 extern pid_t setsid();
836 extern int setuid();
837 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
838 extern void setusershell();
839 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
840 extern unsigned sleep();
841 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
842 extern int stime();
843 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
844 #if defined(_XPG4)
845 /* __EXTENSIONS__ makes the SVID Third Edition prototype in stdlib.h visible */
846 extern void swab();
847 #endif /* defined(_XPG4) */
848 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
849 extern int symlink();
850 extern void sync();
851 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
852 #if defined(_XPG5)

```

```

853 #ifdef __PRAGMA_REDEFINE_EXTNAME
854 #pragma redefine_extname sysconf __sysconf_xpg5
855 extern long sysconf();
856 #else /* __PRAGMA_REDEFINE_EXTNAME */
857 extern long __sysconf_xpg5();
858 #define sysconf __sysconf_xpg5
859 #endif /* __PRAGMA_REDEFINE_EXTNAME */
860 #endif /* defined(_XPG5) */
861 extern pid_t tcgetpgrp();
862 extern int tcsetpgrp();
863 #if !defined(__XOPEN_OR_POSIX) || \
864     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
865     defined(__EXTENSIONS__)
866 extern off_t tell();
867 #endif /* !defined(__XOPEN_OR_POSIX)... */
868 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || \
869     (defined(_LARGEFILE_SOURCE) && _FILE_OFFSET_BITS == 64) || \
870     defined(__EXTENSIONS__)
871 extern int truncate();
872 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
873 extern char *ttyname();
874 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
875 extern useconds_t ualarm();
876 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
877 extern int unlink();
878 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
879 extern int usleep();
880 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
881 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || defined(__EXTENSIONS__)
882 extern pid_t vfork();
883 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2)... */
884 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
885 extern void vhangup();
886 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
887 extern ssize_t write();
888 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
889 extern void yield();
890 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

892 #if !defined(__XOPEN_OR_POSIX) || defined(_ATFILE_SOURCE) || \
893     defined(__EXTENSIONS__)
894 /* || defined(_XPG7) */
895 extern int faccessat();
896 extern int fchownat();
897 extern int linkat();
898 extern ssize_t readlinkat();
899 extern int renameat();
900 extern int symlinkat();
901 extern int unlinkat();
902 #endif /* !defined(__XOPEN_OR_POSIX) || defined(_ATFILE_SOURCE)... */
903 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
904 extern int get_nprocs();
905 extern int get_nprocs_conf();
906 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

908 /* transitional large file interface versions */
909 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
910     !defined(__PRAGMA_REDEFINE_EXTNAME))
911 extern int ftruncate64();
912 extern off64_t lseek64();
913 extern ssize_t pread64();
914 extern ssize_t pwrite64();
915 extern off64_t tell64();
916 extern int truncate64();
917 extern int lockf64();
918 #endif /* _LARGEFILE64_SOURCE */

```

```

920 #endif /* __STDC__ */

922 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
605 #pragma unknown_control_flow(vfork)
606 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2)... */

608 /*
609 * getlogin_r() & ttyname_r() prototypes are defined here.
610 */

612 /*
613 * Previous releases of Solaris, starting at 2.3, provided definitions of
614 * various functions as specified in POSIX.1c, Draft 6. For some of these
615 * functions, the final POSIX 1003.1c standard had a different number of
616 * arguments and return values.
617 *
618 * The following segment of this header provides support for the standard
619 * interfaces while supporting applications written under earlier
620 * releases. The application defines appropriate values of the feature
621 * test macros _POSIX_C_SOURCE and _POSIX_THREAD_SEMANTICS to indicate
622 * whether it was written to expect the Draft 6 or standard versions of
623 * these interfaces, before including this header. This header then
624 * provides a mapping from the source version of the interface to an
625 * appropriate binary interface. Such mappings permit an application
626 * to be built from libraries and objects which have mixed expectations
627 * of the definitions of these functions.
628 *
629 * For applications using the Draft 6 definitions, the binary symbol is the
630 * same as the source symbol, and no explicit mapping is needed. For the
631 * standard interface, the function func() is mapped to the binary symbol
632 * __posix_func(). The preferred mechanism for the remapping is a compiler
633 * #pragma. If the compiler does not provide such a #pragma, the header file
634 * defines a static function func() which calls the __posix_func() version;
635 * this has to be done instead of #define since POSIX specifies that an
636 * application can #undef the symbol and still be bound to the correct
637 * implementation. Unfortunately, the statics confuse lint so we fallback to
638 * #define in that case.
639 *
640 * NOTE: Support for the Draft 6 definitions is provided for compatibility
641 * only. New applications/libraries should use the standard definitions.
642 */

644 #if defined(__EXTENSIONS__) || defined(_REENTRANT) || \
645 !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE - 0 >= 199506L) || \
646 defined(_POSIX_THREAD_SEMANTICS)

966 #if defined(__STDC__)

648 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_THREAD_SEMANTICS)

650 #ifndef __USE_LEGACY_LOGNAME__
651 #ifdef __PRAGMA_REDEFINE_EXTNAME
652 #pragma redefine_extname getlogin_r __posix_getloginx_r
653 extern int getlogin_r(char *, int);
654 #else /* __PRAGMA_REDEFINE_EXTNAME */
655 extern int __posix_getloginx_r(char *, int);
656 #define getlogin_r __posix_getloginx_r
657 #endif /* __PRAGMA_REDEFINE_EXTNAME */
658 #else /* __USE_LEGACY_LOGNAME__ */
659 #ifdef __PRAGMA_REDEFINE_EXTNAME
660 #pragma redefine_extname getlogin_r __posix_getlogin_r
661 extern int getlogin_r(char *, int);
662 #else /* __PRAGMA_REDEFINE_EXTNAME */
663 extern int __posix_getlogin_r(char *, int);

```

```

665 #ifdef __lint
667 #define getlogin_r __posix_getlogin_r

669 #else /* !__lint */

671 static int
672 getlogin_r(char *__name, int __len)
673 {
674     return (__posix_getlogin_r(__name, __len));
675 }
unchanged portion omitted

699 #endif /* !__lint */
700 #endif /* __PRAGMA_REDEFINE_EXTNAME */

702 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

704 #ifndef __USE_LEGACY_LOGNAME__
705 #ifdef __PRAGMA_REDEFINE_EXTNAME
706 #pragma redefine_extname getlogin_r getloginx_r
707 #else /* __PRAGMA_REDEFINE_EXTNAME */
708 extern char *getloginx_r(char *, int);
709 #define getlogin_r getloginx_r
710 #endif /* __PRAGMA_REDEFINE_EXTNAME */
711 #endif /* __USE_LEGACY_LOGNAME__ */
712 extern char *getlogin_r(char *, int);

714 extern char *ttyname_r(int, char *, int);

716 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */

1038 #else /* __STDC__ */

1040 #if (_POSIX_C_SOURCE - 0 >= 199506L) || defined(_POSIX_THREAD_SEMANTICS)

1042 #ifndef __USE_LEGACY_LOGNAME__
1043 #ifdef __PRAGMA_REDEFINE_EXTNAME
1044 #pragma redefine_extname getlogin_r __posix_getloginx_r
1045 extern int getlogin_r();
1046 #else /* __PRAGMA_REDEFINE_EXTNAME */
1047 extern int __posix_getloginx_r();
1048 #define getlogin_r __posix_getloginx_r
1049 #endif /* __PRAGMA_REDEFINE_EXTNAME */
1050 #else /* __USE_LEGACY_LOGNAME__ */
1051 #ifdef __PRAGMA_REDEFINE_EXTNAME
1052 #pragma redefine_extname getlogin_r __posix_getlogin_r
1053 extern int getlogin_r();
1054 #else /* __PRAGMA_REDEFINE_EXTNAME */
1055 extern int __posix_getlogin_r();

1057 #ifdef __lint

1059 #define getlogin_r __posix_getlogin_r

1061 #else /* !__lint */

1063 static int
1064 getlogin_r(__name, __len)
1065     char *__name;
1066     int __len;
1067 {
1068     return (__posix_getlogin_r(__name, __len));
1069 }
1070 #endif /* !__lint */
1071 #endif /* __PRAGMA_REDEFINE_EXTNAME */

```

```
1072 #endif /* __USE_LEGACY_LOGNAME__ */
1074 #ifdef __PRAGMA_REDEFINE_EXTNAME
1075 #pragma redefine_extname ttyname_r __posix_ttyname_r
1076 extern int ttyname_r();
1077 #else /* __PRAGMA_REDEFINE_EXTNAME */
1079 extern int __posix_ttyname_r();
1081 #ifdef __lint
1083 #define ttyname_r __posix_ttyname_r
1085 #else /* !__lint */
1087 ttyname_r(__fildes, __buf, __size)
1088     int __fildes;
1089     char *__buf;
1090     size_t __size;
1091 {
1092     return (__posix_ttyname_r(__fildes, __buf, __size));
1093 }
1094 #endif /* !__lint */
1095 #endif /* __PRAGMA_REDEFINE_EXTNAME */
1097 #else /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */
1099 #ifndef __USE_LEGACY_LOGNAME__
1100 #ifdef __PRAGMA_REDEFINE_EXTNAME
1101 #pragma redefine_extname getlogin_r getloginx_r
1102 #else /* __PRAGMA_REDEFINE_EXTNAME */
1103 extern char *getloginx_r();
1104 #define getlogin_r getloginx_r
1105 #endif /* __PRAGMA_REDEFINE_EXTNAME */
1106 #endif /* __USE_LEGACY_LOGNAME__ */
1107 extern char *getlogin_r();
1109 extern char *ttyname_r();
1111 #endif /* (_POSIX_C_SOURCE - 0 >= 199506L) || ... */
1113 #endif /* __STDC__ */
718 #endif /* defined(__EXTENSIONS__) || defined(_REENTRANT)... */
720 #ifdef __cplusplus
721 }
unchanged_portion_omitted
```

new/usr/src/head/user\_attr.h

1

```
*****
4609 Sat Aug 2 23:27:16 2014
new/usr/src/head/user_attr.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 * Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
24 */

26 #ifndef _USER_ATTR_H
27 #define _USER_ATTR_H

29 #ifdef __cplusplus
30 extern "C" {
31 #endif

34 #include <sys/types.h>
35 #include <secdb.h>

38 struct __FILE; /* structure tag for type FILE defined in stdio.h */

40 /*
41 * Some macros used internally by the nswitch code
42 */
43 #define USERATTR_FILENAME "/etc/user_attr"
44 #define USERATTR_DB_NAME "user_attr.org_dir"
45 #define USERATTR_DB_NCOL 5 /* total columns */
46 #define USERATTR_DB_NKEYCOL 2 /* total searchable columns */
47 #define USERATTR_DB_TBL "user_attr_tbl"
48 #define USERATTR_NAME_DEFAULT_KW "nobody"

50 #define USERATTR_COL0_KW "name"
51 #define USERATTR_COL1_KW "qualifier"
52 #define USERATTR_COL2_KW "res1"
53 #define USERATTR_COL3_KW "res2"
54 #define USERATTR_COL4_KW "attr"

56 #define DEF_LIMITPRIV "PRIV_LIMIT="
57 #define DEF_DFLTPRIV "PRIV_DEFAULT="

59 /*
60 * indices of searchable columns
61 */
```

new/usr/src/head/user\_attr.h

2

```
62 #define USERATTR_KEYCOL0 0 /* name */
63 #define USERATTR_KEYCOL1 1 /* qualifier */

65 /*
66 * Key words used in the user_attr database
67 */
68 #define USERATTR_LOCK_KW "lock"
69 #define USERATTR_LOCK_LOCKED_KW "locked"
70 #define USERATTR_LOCK_OPEN_KW "open"
71 #define USERATTR_LOCK_FIXED_KW "fixed"
72 #define USERATTR_GEN_KW "gen"
73 #define USERATTR_GEN_AUTOMATIC_KW "automatic"
74 #define USERATTR_GEN_MANUAL_KW "manual"
75 #define USERATTR_GEN_SYSDEF_KW "sysdef"
76 #define USERATTR_PROFILES_KW "profiles"
77 #define USERATTR_PROFILES_NONE_KW "none"
78 #define USERATTR_ROLES_KW "roles"
79 #define USERATTR_ROLES_NONE_KW "none"
80 #define USERATTR_DEFAULTPROJ_KW "project"
81 #define USERATTR_IDLETIME_KW "idletime"
82 #define USERATTR_IDLECMD_KW "idlecmd"
83 #define USERATTR_IDLECMD_LOCK_KW "lock"
84 #define USERATTR_IDLECMD_LOGOUT_KW "logout"
85 #define USERATTR_TYPE_KW "type"
86 #define USERATTR_TYPE_NORMAL_KW "normal"
87 #define USERATTR_TYPE_ADMIN_KW "admin"
88 #define USERATTR_TYPE_NONADMIN_KW "role"
89 #define USERATTR_AUTHS_KW "auths"
90 #define USERATTR_LIMPRIV_KW "limitpriv"
91 #define USERATTR_DFLTPRIV_KW "defaultpriv"
92 #define USERATTR_LOCK_AFTER_RETRIES_KW "lock_after_retries"
93 #define USERATTR_CLEARANCE "clearance"
94 #define USERATTR_LABELVIEW "labelview"
95 #define USERATTR_LABELVIEW_EXTERNAL "external"
96 #define USERATTR_LABELVIEW_HIDESL "hidesl"
97 #define USERATTR_HIDESL USERATTR_LABELVIEW_HIDESL
98 #define USERATTR_LABELVIEW_INTERNAL "internal"
99 #define USERATTR_LABELVIEW_SHOWSL "showsl"
100 #define USERATTR_LABELTRANS "labeltrans"
101 #define USERATTR_LOCK_NO "no"
102 #define USERATTR_LOCK_YES "yes"
103 #define USERATTR_MINLABEL "min_label"
104 #define USERATTR_PASSWD "password"
105 #define USERATTR_PASSWD_AUTOMATIC "automatic"
106 #define USERATTR_PASSWD_MANUAL "manual"
107 #define USERATTR_TYPE_ROLE USERATTR_TYPE_NONADMIN_KW
108 #define USERATTR_AUDIT_FLAGS_KW "audit_flags"

111 /*
112 * Nswitch representation of user attributes.
113 */
114 typedef struct userstr_s {
115     char *name; /* user name */
116     char *qualifier; /* reserved for future use */
117     char *res1; /* reserved for future use */
118     char *res2; /* reserved for future use */
119     char *attr; /* string of key-value pair attributes */
120 } userstr_t;
    unchanged_portion_omitted

132 #ifdef __STDC__
133 extern userattr_t *getusernam(const char *);
134 extern userattr_t *getuserid(uid_t uid);
135 extern userattr_t *getuserattr(void);
136 extern userattr_t *fgetuserattr(struct __FILE *);
```

```
137 extern void setuserattr(void);
138 extern void enduserattr(void);
139 extern void free_userattr(userattr_t *);
```

```
141 #else /* not __STDC__ */
```

```
143 extern userattr_t *getusernam();
144 extern userattr_t *getuserid();
145 extern userattr_t *getuserattr();
146 extern userattr_t *fgetuserattr();
147 extern void setuserattr();
148 extern void enduserattr();
149 extern void free_userattr();
150 #endif
```

```
141 #ifdef __cplusplus
142 }
```

unchanged\_portion\_omitted



new/usr/src/head/ustat.h

1

\*\*\*\*\*

1181 Sat Aug 2 23:27:16 2014

new/usr/src/head/ustat.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */
```

```
29 #ifndef _USTAT_H
30 #define _USTAT_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3.1.6 */
```

```
32 #include <sys/types.h>
33 #include <sys/ustat.h>
```

```
35 #ifdef __cplusplus
36 extern "C" {
37 #endif
```

```
38 #if defined(__STDC__)
39 extern int ustat(dev_t, struct ustat *);
40 #else
41 extern int ustat();
42 #endif /* end defined(__STDC) */
```

```
41 #ifdef __cplusplus
42 }
```

unchanged\_portion\_omitted

new/usr/src/head/utime.h

1

```
*****
1208 Sat Aug  2 23:27:17 2014
new/usr/src/head/utime.h
remove support for non-ANSI compilation
*****
```

```
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22 /*
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24 */
25 /*      Copyright (c) 1988 AT&T */
26 /*      All Rights Reserved      */

29 /* utimbuf is used by utime(2) */

31 #ifndef _UTIME_H
32 #define _UTIME_H

31 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3 */

34 #include <sys/utime.h>

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

39 #if defined(__STDC__)
40 extern int utime(const char *, const struct utimbuf *);
41 #else
42 extern int utime();
43 #endif /* __STDC__ */

42 #ifdef __cplusplus
43 }
   unchanged_portion_omitted
```

new/usr/src/head/utmp.h

1

```
*****
5014 Sat Aug 2 23:27:17 2014
new/usr/src/head/utmp.h
remove support for non-ANSI compilation
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31 */

34 #ifndef _UTMP_H
35 #define _UTMP_H

35 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.5.1.7 */

37 /*
38 * Note: The getutent(3c) family of interfaces are obsolete.
39 * The getutxent(3c) family provide a superset of this functionality
40 * and should be used in place of getutent(3c).
41 */

43 #include <sys/types.h>

45 #ifdef __cplusplus
46 extern "C" {
47 #endif

49 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
50 #define UTMP_FILE      "/var/adm/utmp"
51 #define WTMP_FILE      "/var/adm/wtmp"
52 #endif

54 #define ut_name ut_user

56 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
57 struct exit_status {
58     short e_termination; /* Process termination status */
59     short e_exit; /* Process exit status */

```

new/usr/src/head/utmp.h

2

```
60 };
    unchanged_portion_omitted

114 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

116 /*      Definitions for ut_type */

118 #define EMPTY      0
119 #define RUN_LVL      1
120 #define BOOT_TIME      2
121 #define OLD_TIME      3
122 #define NEW_TIME      4
123 #define INIT_PROCESS      5 /* Process spawned by "init" */
124 #define LOGIN_PROCESS      6 /* A "getty" process waiting for login */
125 #define USER_PROCESS      7 /* A user process */
126 #define DEAD_PROCESS      8

128 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)

130 #define ACCOUNTING      9
131 #define DOWN_TIME      10

133 #define UTMXTYPE      DOWN_TIME /* Largest legal value of ut_type */

135 /*      Special strings or formats used in the "ut_line" field when
136 /*      accounting for something other than a process.
137 /*      No string for the ut_line field can be more than 11 chars +
138 /*      a NULL in length.

140 #define RUNLVL_MSG      "run-level %c"
141 #define BOOT_MSG      "system boot"
142 #define OTIME_MSG      "old time"
143 #define NTIME_MSG      "new time"
144 #define PSRADM_MSG      "%03d %s" /* processor on or off */
145 #define DOWN_MSG      "system down"

147 /*      Define and macro for determining if a normal user wrote the entry */
148 /*      and marking the utmpx entry as a normal user */
149 #define NONROOT_USR      2
150 #define nonuser(ut)      ((ut).ut_exit.e_exit == NONROOT_USR ? 1 : 0)
151 #define setuser(ut)      ((ut).ut_exit.e_exit = NONROOT_USR)

154 #if defined(__STDC__)
154 extern void endutent(void);
155 extern struct utmp *getutent(void);
156 extern struct utmp *getutid(const struct utmp *);
157 extern struct utmp *getutline(const struct utmp *);
158 extern struct utmp *pututline(const struct utmp *);
159 extern void setutent(void);
160 extern int utmpname(const char *);
162 #else
163 extern void endutent();
164 extern struct utmp *getutent();
165 extern struct utmp *getutid();
166 extern struct utmp *getutline();
167 extern struct utmp *pututline();
168 extern void setutent();
169 extern int utmpname();
170 #endif

162 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

164 #ifdef __cplusplus
165 }
    unchanged_portion_omitted

```

```

*****
4889 Sat Aug 2 23:27:17 2014
new/usr/src/head/utmpx.h
remove support for non-ANSI compilation
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32 /*
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34 * under license from the Regents of the University of California.
35 */

37 #ifndef _UTMPX_H
38 #define _UTMPX_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"

40 #include <sys/feature_tests.h>
41 #include <sys/types.h>
42 #include <sys/time.h>
43 #include <utmp.h>

45 #ifdef __cplusplus
46 extern "C" {
47 #endif

49 #define _UTMPX_FILE      "/var/adm/utmpx"
50 #define _WTMPX_FILE      "/var/adm/wtmpx"
51 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
52 #define UTMPX_FILE      _UTMPX_FILE
53 #define WTMPX_FILE      _WTMPX_FILE
54 #endif

56 #define ut_name ut_user
57 #define ut_xtime ut_tv.tv_sec

59 /*

```

```

60 * This data structure describes the utmpx entries returned by
61 * the getutxent(3c) family of APIs. It does not (necessarily)
62 * correspond to the contents of the utmpx or wtmpx files.
63 *
64 * Applications should only interact with this subsystem via
65 * the getutxent(3c) family of APIs.
66 */
67 struct utmpx {
68     char    ut_user[32];          /* user login name */
69     char    ut_id[4];            /* inittab id */
70     char    ut_line[32];         /* device name (console, lnxx) */
71     pid_t   ut_pid;              /* process id */
72     short   ut_type;             /* type of entry */
73 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
74     struct  exit_status ut_exit; /* process termination/exit status */
75 #else
76     struct  ut_exit_status ut_exit; /* process termination/exit status */
77 #endif
78     struct  timeval ut_tv;        /* time entry was made */
79     int     ut_session;          /* session ID, used for windowing */
80 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
81     int     pad[5];              /* reserved for future use */
82 #else
83     int     __pad[5];            /* reserved for future use */
84 #endif
85     short   ut_syslen;           /* significant length of ut_host */
86     /* including terminating null */
87     char    ut_host[257];        /* remote host name */
88 };
89
90 #define MOD_WIN      10

122 /*      Define and macro for determining if a normal user wrote the entry */
123 /*      and marking the utmpx entry as a normal user */
124 #define NONROOT_USRX      2
125 #define nonuserx(utx)      ((utx).ut_exit.e_exit == NONROOT_USRX ? 1 : 0)
126 #define setuserx(utx)      ((utx).ut_exit.e_exit = NONROOT_USRX)

128 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

130 #if defined(__STDC__)

130 extern void endutxent(void);
131 extern struct utmpx *getutxent(void);
132 extern struct utmpx *getutxid(const struct utmpx *);
133 extern struct utmpx *getutxline(const struct utmpx *);
134 extern struct utmpx *pututxline(const struct utmpx *);
135 extern void setutxent(void);

137 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
138 extern int utmpxname(const char *);
139 extern struct utmpx *makeutx(const struct utmpx *);
140 extern struct utmpx *modutx(const struct utmpx *);
141 extern void getutmp(const struct utmpx *, struct utmp *);
142 extern void getutmpx(const struct utmp *, struct utmpx *);
143 extern void updwtmp(const char *, struct utmp *);
144 extern void updwtmpx(const char *, struct utmpx *);
145 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

149 #else /* __STDC__ */

151 extern void endutxent();
152 extern struct utmpx *getutxent();
153 extern struct utmpx *getutxid();
154 extern struct utmpx *getutxline();

```

```
155 extern struct utmpx *pututxline();
156 extern void setutxent();

158 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
159 extern int utmpxname();
160 extern struct utmpx *makeutx();
161 extern struct utmpx *modutx();
162 extern void getutmp();
163 extern void getutmpx();
164 extern void updwtmp();
165 extern void updwtmpx();
166 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

168 #endif /* __STDC__ */

147 #ifdef __cplusplus
148 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/values.h

1

```
*****
5192 Sat Aug  2 23:27:17 2014
new/usr/src/head/values.h
remove support for non-ANSI compilation
*****
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31 */

33 #ifndef _VALUES_H
34 #define _VALUES_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.33 */

36 #include <sys/isa_defs.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /*
43  * These values work with any binary representation of integers
44  * where the high-order bit contains the sign.
45  */

47 /* a number used normally for size of a shift */
48 #define BITSPERBYTE      8

50 #define BITS(type)      (BITSPERBYTE * (long)sizeof (type))

52 /* short, regular and long ints with only the high-order bit turned on */
53 #define HIBITS      ((short)(1 << (BITS(short) - 1)))

55 #if defined(__STDC__)

55 #define HIBITI      (1U << (BITS(int) - 1))
56 #define HIBITL      (1UL << (BITS(long) - 1))
```

new/usr/src/head/values.h

2

```
60 #else

62 #define HIBITI      ((unsigned)1 << (BITS(int) - 1))
63 #define HIBITL      (1L << (BITS(long) - 1))

65 #endif

58 /* largest short, regular and long int */
59 #define MAXSHORT      ((short)~HIBITS)
60 #define MAXINT      ((int)~HIBITI)
61 #define MAXLONG      ((long)~HIBITL)

63 /*
64  * various values that describe the binary floating-point representation
65  * _EXPBASE - the exponent base
66  * DMAXEXP - the maximum exponent of a double (as returned by frexp())
67  * FMAXEXP - the maximum exponent of a float (as returned by frexp())
68  * DMINEXP - the minimum exponent of a double (as returned by frexp())
69  * FMINEXP - the minimum exponent of a float (as returned by frexp())
70  * MAXDOUBLE - the largest double
71  *      (( _EXPBASE ** DMAXEXP ) * ( 1 - ( _EXPBASE ** -DSIGNIF ) ) )
72  * MAXFLOAT - the largest float
73  *      (( _EXPBASE ** FMAXEXP ) * ( 1 - ( _EXPBASE ** -FSIGNIF ) ) )
74  * MINDOUBLE - the smallest double ( _EXPBASE ** ( DMINEXP - 1 ) )
75  * MINFLOAT - the smallest float ( _EXPBASE ** ( FMINEXP - 1 ) )
76  * DSIGNIF - the number of significant bits in a double
77  * FSIGNIF - the number of significant bits in a float
78  * DMAXPOW2 - the largest power of two exactly representable as a double
79  * FMAXPOW2 - the largest power of two exactly representable as a float
80  * _IEEE - 1 if IEEE standard representation is used
81  * _DEXPLEN - the number of bits for the exponent of a double
82  * _FEXPLEN - the number of bits for the exponent of a float
83  * _HIDDENBIT - 1 if high-significance bit of mantissa is implicit
84  * LN_MAXDOUBLE - the natural log of the largest double -- log(MAXDOUBLE)
85  * LN_MINDOUBLE - the natural log of the smallest double -- log(MINDOUBLE)
86  * LN_MAXFLOAT - the natural log of the largest float -- log(MAXFLOAT)
87  * LN_MINFLOAT - the natural log of the smallest float -- log(MINFLOAT)
88 */

90 /*
91  * Currently, only IEEE-754 format is supported.
92  */
93 #if defined(_IEEE_754)
94 #define MAXDOUBLE      1.79769313486231570e+308
95 #define MAXFLOAT      ((float)3.40282346638528860e+38)
96 #define MINDOUBLE      4.94065645841246544e-324
97 #define MINFLOAT      ((float)1.40129846432481707e-45)
98 #define _IEEE      1
99 #define _DEXPLEN      11
100 #define _HIDDENBIT      1
101 #define _LENBASE      1
102 #define DMINEXP      -(DMAXEXP + DSIGNIF - _HIDDENBIT - 3)
103 #define FMINEXP      -(FMAXEXP + FSIGNIF - _HIDDENBIT - 3)
104 #else
105 /* #error is strictly ansi-C, but works as well as anything for K&R systems. */
106 #error "ISA not supported"
107 #endif

109 #define _EXPBASE      (1 << _LENBASE)
110 #define _FEXPLEN      8
111 #define DSIGNIF      (BITS(double) - _DEXPLEN + _HIDDENBIT - 1)
112 #define FSIGNIF      (BITS(float) - _FEXPLEN + _HIDDENBIT - 1)
113 #define DMAXPOW2      ((double)(1 << (BITS(int) - 2)) * \
114      (1 << (DSIGNIF - BITS(int) + 1)))
115 #define FMAXPOW2      ((float)(1 << (FSIGNIF - 1)))
116 #define DMAXEXP      ((1 << (_DEXPLEN - 1)) - 1 + _IEEE)
```

```
117 #define FMAXEXP ((1 << (_FEXPLEN - 1)) - 1 + _IEEE)
118 #define LN_MAXDOUBLE (M_LN2 * DMAXEXP)
119 #define LN_MAXFLOAT (float)(M_LN2 * FMAXEXP)
120 #define LN_MINDOUBLE (M_LN2 * (DMINEXP - 1))
121 #define LN_MINFLOAT (float)(M_LN2 * (FMINEXP - 1))
122 #define H_PREC (DSIGNIF % 2 ? (1 << DSIGNIF/2) * M_SQRT2 : 1 << DSIGNIF/2)
123 #define FH_PREC \
124     (float)(FSIGNIF % 2 ? (1 << FSIGNIF/2) * M_SQRT2 : 1 << FSIGNIF/2)
125 #define X_EPS (1.0/H_PREC)
126 #define FX_EPS (float)((float)1.0/FH_PREC)
127 #define X_PLOSS ((double)(int)(M_PI * H_PREC))
128 #define FX_PLOSS ((float)(int)(M_PI * FH_PREC))
129 #define X_TLOSS (M_PI * DMAXPOWTWO)
130 #define FX_TLOSS (float)(M_PI * FMAXPOWTWO)
131 #define M_LN2 0.69314718055994530942
132 #define M_PI 3.14159265358979323846
133 #define M_SQRT2 1.41421356237309504880
134 #define MAXBEXP DMAXEXP /* for backward compatibility */
135 #define MINBEXP DMINEXP /* for backward compatibility */
136 #define MAXPOWTWO DMAXPOWTWO /* for backward compatibility */

138 #ifdef __cplusplus
139 }
    unchanged portion omitted
```

new/usr/src/head/wait.h

1

\*\*\*\*\*

1306 Sat Aug 2 23:27:17 2014

new/usr/src/head/wait.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
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24 */
25 /*      Copyright (c) 1988 AT&T */
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```

```
29 #ifndef _WAIT_H
30 #define _WAIT_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.1 */
```

```
32 #include <sys/types.h>
33 #include <sys/signinfo.h>
34 #include <sys/procset.h>
35 #include <sys/wait.h>
```

```
37 #ifdef __cplusplus
38 extern "C" {
39 #endif
```

```
40 #if defined(__STDC__)
```

```
41 extern pid_t wait(int *);
42 extern pid_t waitpid(pid_t, int *, int);
43 extern int waitid(idtype_t, id_t, signinfo_t *, int);
```

```
46 #else
```

```
48 extern pid_t wait();
49 extern pid_t waitpid();
50 extern int waitid();
```

```
52 #endif
```

```
45 #ifdef __cplusplus
46 }
47 #endif
```

```
49 #endif /* _WAIT_H */
```



```

*****
5384 Sat Aug 2 23:27:17 2014
new/usr/src/head/wchar.h
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22 /*
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24  * Copyright (c) 1993, 2010, Oracle and/or its affiliates. All rights reserved.
25  */

27 #ifndef _WCHAR_H
28 #define _WCHAR_H

30 #include <sys/feature_tests.h>
31 #include <iso/wchar_iso.h>
32 #include <iso/wchar_c99.h>

34 /*
35  * Allow global visibility for symbols defined in
36  * C++ "std" namespace in <iso/wchar_iso.h>.
37  */
38 #if __cplusplus >= 199711L
39 using std::FILE;
40 using std::wint_t;
41 using std::clock_t;
42 using std::size_t;
43 using std::time_t;
44 using std::tm;
45 using std::mbstate_t;
46 using std::fgetwc;
47 using std::fgetws;
48 using std::fputwc;
49 using std::fputws;
50 using std::ungetwc;
51 using std::getwc;
52 using std::getwchar;
53 using std::putwc;
54 using std::putwchar;
55 using std::wcstod;
56 using std::wcstol;
57 using std::wcstoul;
58 using std::wcscat;
59 using std::wcschr;
60 using std::wcscmp;
61 using std::wcscoll;

```

```

62 using std::wcsncpy;
63 using std::wcsncpy;
64 using std::wcslen;
65 using std::wcsncat;
66 using std::wcsncmp;
67 using std::wcsncpy;
68 using std::wcpbrk;
69 using std::wcsrchr;
70 using std::wcssp;
71 using std::wcxfrm;
72 using std::wcstok;
73 using std::wcsftime;
74 /* not XPG4 and not XPG4v2 */
75 #if (!defined(_XPG4) && !defined(_XPG4_2) || defined(_XPG5))
76 using std::btowc;
77 using std::fwprintf;
78 using std::fwscanf;
79 using std::fwide;
80 using std::mbsinit;
81 using std::mbrlen;
82 using std::mbrtowc;
83 using std::mbsrtowcs;
84 using std::swprintf;
85 using std::swscanf;
86 using std::vwprintf;
87 using std::vwscanf;
88 using std::vswprintf;
89 using std::wctomb;
90 using std::wcsrtombs;
91 using std::wcsstr;
92 using std::wctob;
93 using std::wmemchr;
94 using std::wmemcmp;
95 using std::wmemcpy;
96 using std::wmemmove;
97 using std::wmemset;
98 using std::wprintf;
99 using std::wscanf;
100 #endif /* not XPG4 and not XPG4v2 */
101 #endif /* __cplusplus >= 199711L */

103 #ifdef __cplusplus
104 extern "C" {
105 #endif

107 #if !defined(_STRICT_STDC) || defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
108 #if !defined(_WCTYPE_T) || __cplusplus >= 199711L
109 #define _WCTYPE_T
110 typedef int wctype_t;
111 #endif
112 #endif /* !defined(_STRICT_STDC) || defined(_XOPEN_SOURCE)... */

114 /*
115  * XPG6 requires that va_list be defined as defined in <stdarg.h>,
116  * however, inclusion of <stdarg.h> breaks Standard C namespace.
117  */
118 #if defined(_XPG6) && !defined(_VA_LIST)
119 #define _VA_LIST
120 typedef __va_list va_list;
121 #endif /* defined(_XPG6) && !defined(_VA_LIST) */

123 #ifdef __STDC__

123 #if !defined(_STRICT_STDC) || defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
124 #if __cplusplus >= 199711L
125 namespace std {

```

```

126 #endif
127 extern int iswalpha(wint_t);
128 extern int iswupper(wint_t);
129 extern int iswlower(wint_t);
130 extern int iswdigit(wint_t);
131 extern int iswxdigit(wint_t);
132 extern int iswalnum(wint_t);
133 extern int iswspace(wint_t);
134 extern int iswpunct(wint_t);
135 extern int iswprint(wint_t);
136 extern int iswgraph(wint_t);
137 extern int iswcntrl(wint_t);
138 extern int iswctype(wint_t, wctype_t);
139 extern wint_t towlower(wint_t);
140 extern wint_t towupper(wint_t);
141 extern wchar_t *wcswcs(const wchar_t *, const wchar_t *);
142 extern int wcswidth(const wchar_t *, size_t);
143 extern int wwidth(wchar_t);
144 extern wctype_t wctype(const char *);
145 #if __cplusplus >= 199711L
146 } /* namespace std */

148 using std::iswalpha;
149 using std::iswupper;
150 using std::iswlower;
151 using std::iswdigit;
152 using std::iswxdigit;
153 using std::iswalnum;
154 using std::iswspace;
155 using std::iswpunct;
156 using std::iswprint;
157 using std::iswgraph;
158 using std::iswcntrl;
159 using std::iswctype;
160 using std::tolower;
161 using std::toupper;
162 using std::wcswcs;
163 using std::wcswidth;
164 using std::wwidth;
165 using std::wctype;
166 #endif
167 #endif /* !defined(_STRICT_STDC) || defined(_XOPEN_SOURCE)... */

169 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)

171 #ifndef _LOCALE_T
172 #define _LOCALE_T
173 typedef struct _locale *locale_t;
174 #endif

176 extern size_t wcsnlen(const wchar_t *, size_t);
177 extern wchar_t *wcpncpy(wchar_t *_RESTRIC_KYWD, const wchar_t *_RESTRIC_KYWD,
178 extern wchar_t *wcpncpy(wchar_t *_RESTRIC_KYWD, const wchar_t *_RESTRIC_KYWD,
179     size_t);
180 extern size_t wcsxfrm_l(wchar_t *_RESTRIC_KYWD, const wchar_t *_RESTRIC_KYWD,
181     size_t, locale_t);
182 extern int wscoll_l(const wchar_t *, const wchar_t *, locale_t);
183 extern wchar_t *wcsdup(const wchar_t *);
184 extern int wscasecmp(const wchar_t *, const wchar_t *);
185 extern int wscasecmp_l(const wchar_t *, const wchar_t *, locale_t);
186 extern int wcsncasecmp(const wchar_t *, const wchar_t *, size_t);
187 extern int wcsncasecmp_l(const wchar_t *, const wchar_t *, size_t, locale_t);
188 extern size_t mbsnrtowcs(wchar_t *_RESTRIC_KYWD, const char **_RESTRIC_KYWD,
189     size_t, size_t, mbstate_t *_RESTRIC_KYWD);

191 #endif /* defined(_XPG7) || !defined(_STRICT_SYMBOLS) */

```

```

195 #else /* __STDC__ */

197 #if !defined(_STRICT_STDC) || defined(_XOPEN_SOURCE) || defined(__EXTENSIONS__)
198 extern int iswalpha();
199 extern int iswupper();
200 extern int iswlower();
201 extern int iswdigit();
202 extern int iswxdigit();
203 extern int iswalnum();
204 extern int iswspace();
205 extern int iswpunct();
206 extern int iswprint();
207 extern int iswgraph();
208 extern int iswcntrl();
209 extern int iswctype();
210 extern wint_t towlower();
211 extern wint_t towupper();
212 extern wchar_t *wcswcs();
213 extern int wcswidth();
214 extern int wwidth();
215 extern wctype_t wctype();
216 #endif /* !defined(_STRICT_STDC) || defined(_XOPEN_SOURCE)... */

218 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)
219 extern size_t wcsnlen();
220 extern wchar_t *wcpncpy();
221 extern wchar_t *wcpncpy();
222 extern size_t wcsxfrm_l();
223 extern int wscoll_l();
224 extern wchar_t *wcsdup();
225 extern int wscasecmp();
226 extern int wscasecmp_l();
227 extern int wcsncasecmp();
228 extern int wcsncasecmp_l();
229 extern size_t mbsnrtowcs();
230 #endif

232 #endif /* __STDC__ */

193 #ifdef __cplusplus
194 }
    unchanged_portion_omitted

```

new/usr/src/head/wctype.h

1

```
*****
4524 Sat Aug  2 23:27:17 2014
new/usr/src/head/wctype.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      wctype.h      1.13 89/11/02 SMI; JLE  */
23 /*      from AT&T JAE 2.1      */
24 /*      definitions for international functions */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 2003 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 #ifndef _WCTYPE_H
34 #define _WCTYPE_H

36 #include <sys/feature_tests.h>
37 #include <iso/wctype_iso.h>
38 #ifndef _STRICT_SYMBOLS
39 #include <ctype.h>
40 #include <wchar.h>
41 #endif

43 /*
44  * Allow global visibility for symbols defined in
45  * C++ "std" namespace in <iso/wctype_iso.h>.
46  */
47 #if __cplusplus >= 199711L
48 using std::wint_t;
49 using std::wctrans_t;
50 using std::iswalnum;
51 using std::iswalpha;
52 using std::iswcntrl;
53 using std::iswdigit;
54 using std::iswgraph;
55 using std::iswlower;
56 using std::iswprint;
57 using std::iswpunct;
58 using std::iswspace;
59 using std::iswupper;
60 using std::iswxdigit;
61 using std::towlower;
```

new/usr/src/head/wctype.h

2

```
62 using std::towupper;
63 using std::wctrans;
64 using std::towctrans;
65 using std::iswctype;
66 using std::wctype;
67 #if (__cplusplus >= 201103L) || defined(_STDC_C99) || defined(_XPG6) || \
68     !defined(_STRICT_SYMBOLS)
69 using std::iswblank;
70 #endif
71 #endif

73 #ifdef __cplusplus
74 extern "C" {
75 #endif

77 /* do not allow any of the following in a strictly conforming application */
78 #ifndef _STRICT_SYMBOLS

80 /*
81  * data structure for supplementary code set
82  * for character class and conversion
83  */
84 struct _wctype {
85     wchar_t tmin;           /* minimum code for wctype */
86     wchar_t tmax;           /* maximum code for wctype */
87     unsigned char *index;  /* class index */
88     unsigned int *type;    /* class type */
89     wchar_t cmin;          /* minimum code for conversion */
90     wchar_t cmax;          /* maximum code for conversion */
91     wchar_t *code;         /* conversion code */
92 };

95 #ifdef _ILLUMOS_PRIVATE
96 extern int __iswrunes(wint_t);
97 extern wint_t __nextwctype(wint_t, wctype_t);
98 #define iswrunes(c)      __iswrunes(c)
99 #define nextwctype(c, t) __nextwctype(c, t)
100 #endif

102 /* character classification functions */

104 /* iswascii is still a macro */
105 #define iswascii(c)      isascii(c)

107 /* isw*, except iswascii(), are not macros any more. They become functions */
107 #ifdef __STDC__

109 /* is* also become functions */
110 extern int isphonogram(wint_t);
111 extern int isideogram(wint_t);
112 extern int isenglish(wint_t);
113 extern int isnumber(wint_t);
114 extern int isspecial(wint_t);
115 /* From BSD/MacOS */
116 extern int iswideogram(wint_t);
117 extern int iswphonogram(wint_t);
118 extern int iswnumber(wint_t);
119 extern int iswhexnumber(wint_t);
120 extern int iswspecial(wint_t);

122 #else /* __STDC__ */

124 /* is* also become functions */
125 extern int isphonogram();
126 extern int isideogram();
```

```

127 extern int isenglish();
128 extern int isnumber();
129 extern int isspecial();
130 /* From BSD/MacOS */
131 extern int iswideogram();
132 extern int iswphonogram();
133 extern int iswnumber();
134 extern int iswspecial();
135 #endif

122 #define iscodeset0(c) isascii(c)
123 #define iscodeset1(c) (((c) & WCHAR_CSMASK) == WCHAR_CS1)
124 #define iscodeset2(c) (((c) & WCHAR_CSMASK) == WCHAR_CS2)
125 #define iscodeset3(c) (((c) & WCHAR_CSMASK) == WCHAR_CS3)

127 #endif /* !defined(_STRICT_SYMBOLS)... */

130 /* XPG7 extended locale support */
131 #if defined(_XPG7) || !defined(_STRICT_SYMBOLS)

133 #ifndef _LOCALE_T
134 #define _LOCALE_T
135 typedef struct _locale *locale_t;
136 #endif

153 #if defined(__STDC__)
138 extern wint_t tolower_l(wint_t, locale_t);
139 extern wint_t toupper_l(wint_t, locale_t);
140 extern wint_t towctrans_l(wint_t, wctrans_t, locale_t);
141 extern int iswctype_l(wint_t, wctype_t, locale_t);
142 extern int iswalnum_l(wint_t, locale_t);
143 extern int iswalphal_l(wint_t, locale_t);
144 extern int iswcntrl_l(wint_t, locale_t);
145 extern int iswdigit_l(wint_t, locale_t);
146 extern int iswgraph_l(wint_t, locale_t);
147 extern int iswlower_l(wint_t, locale_t);
148 extern int iswprint_l(wint_t, locale_t);
149 extern int iswpunct_l(wint_t, locale_t);
150 extern int iswspace_l(wint_t, locale_t);
151 extern int iswupper_l(wint_t, locale_t);
152 extern int iswxdigit_l(wint_t, locale_t);
153 extern wctrans_t wctrans_l(const char *, locale_t);
154 extern wctype_t wctype_l(const char *, locale_t);
171 #else /* __STDC__ */
172 extern wint_t tolower_l();
173 extern wint_t toupper_l();
174 extern wint_t towctrans_l();
175 extern int iswctype_l();
176 extern int iswalnum_l();
177 extern int iswalphal_l();
178 extern int iswcntrl_l();
179 extern int iswdigit_l();
180 extern int iswgraph_l();
181 extern int iswlower_l();
182 extern int iswprint_l();
183 extern int iswpunct_l();
184 extern int iswspace_l();
185 extern int iswupper_l();
186 extern int iswxdigit_l();
187 extern wctrans_t wctrans_l();
188 extern wctype_t wctype_l();
189 #endif /* __STDC__ */
155 #endif /* defined(_XPG7) || !defined(_STRICT_SYMBOLS) */

157 #ifndef __cplusplus

```

```

158 }
    unchanged_portion_omitted

```

```

*****
4002 Sat Aug 2 23:27:17 2014
new/usr/src/head/widec.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 */
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*      Copyright (c) 1986 AT&T */
30 /*      All Rights Reserved      */

33 /*      This module is created for NLS on Jun.04.86      */

35 #ifndef _WIDEC_H
36 #define _WIDEC_H

36 #pragma ident      "%Z%M% %I%      %E% SMI"

38 #include <sys/feature_tests.h>

40 #if defined(__STDC__)
40 #include <stdio.h>      /* For definition of FILE */
42 #endif
41 #include <euc.h>
42 #include <wchar.h>

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

50 #if defined(__STDC__)
48 /* Character based input and output functions */
49 extern wchar_t *getws(wchar_t *);
50 extern int      putws(const wchar_t *);

52 #if !defined(__lint)
53 #define getwc(p)      fgetwc(p)
54 #define putwc(x, p)  fputwc((x), (p))
55 #define getwchar()   getwc(stdin)
56 #define putwchar(x)  putwc((x), stdout)

```

```

57 #endif

59 /* wchar_t string operation functions */
60 extern wchar_t *strtows(wchar_t *, char *);
61 extern wchar_t *wscpy(wchar_t *, const wchar_t *);
62 extern wchar_t *wsncpy(wchar_t *, const wchar_t *, size_t);
63 extern wchar_t *wscat(wchar_t *, const wchar_t *);
64 extern wchar_t *wsncat(wchar_t *, const wchar_t *, size_t);
65 extern wchar_t *wschr(const wchar_t *, wchar_t);
66 extern wchar_t *wsrchr(const wchar_t *, wchar_t);
67 extern wchar_t *wspbrk(const wchar_t *, const wchar_t *);
68 extern wchar_t *wstok(wchar_t *, const wchar_t *);
69 extern char *wstostr(char *, wchar_t *);

71 extern int      wscmp(const wchar_t *, const wchar_t *);
72 extern int      wsncmp(const wchar_t *, const wchar_t *, size_t);
73 extern size_t  wslen(const wchar_t *);
74 extern size_t  wsspn(const wchar_t *, const wchar_t *);
75 extern size_t  wscspn(const wchar_t *, const wchar_t *);
76 extern int      wscoll(const wchar_t *, const wchar_t *);
77 extern size_t  wsxfrm(wchar_t *, const wchar_t *, size_t);

79 #if !defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX)

81 extern wchar_t *wsdup(const wchar_t *);
82 extern int      wscol(const wchar_t *);
83 extern double  wstod(const wchar_t *, wchar_t **);
84 extern long    wstol(const wchar_t *, wchar_t **, int);
85 extern int      wscasecmp(const wchar_t *, const wchar_t *);
86 extern int      wsncasecmp(const wchar_t *, const wchar_t *, size_t);
87 extern int      wsprintf(wchar_t *, const char *, ...);
88 #if defined(_LONGLONG_TYPE)
89 extern long long wstoll(const wchar_t *, wchar_t **, int);
90 #endif /* defined(_LONGLONG_TYPE) */

92 #endif /* !defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX) */

97 #else /* !defined(__STDC__) */
98 /* Character based input and output functions */
99 extern wchar_t *getws();
100 extern int      putws();

102 #ifndef getwc
103 #define getwc(p)      fgetwc(p)
104 #endif
105 #ifndef putwc
106 #define putwc(x, p)  fputwc((x), (p))
107 #endif
108 #ifndef getwchar
109 #define getwchar()   getwc(stdin)
110 #endif
111 #ifndef putwchar
112 #define putwchar(x)  putwc((x), stdout)
113 #endif

115 /* wchar_t string operation functions */
116 extern wchar_t *strtows();
117 extern wchar_t *wscpy();
118 extern wchar_t *wsncpy();
119 extern wchar_t *wscat();
120 extern wchar_t *wsncat();
121 extern wchar_t *wschr();
122 extern wchar_t *wsrchr();
123 extern wchar_t *wspbrk();
124 extern wchar_t *wstok();

```

```

126 extern int      wscmp();
127 extern int      wsncmp();
128 extern int      wslen();
129 extern int      wsspn();
130 extern int      wscspn();
131 extern int      wscoll();
132 extern int      wsxfrm();

134 extern char      *wstostr();
135 extern wchar_t   *wsdup();
136 extern int      wscol();
137 extern double    wstod();
138 extern long      wstol();
139 extern int      wscasecmp();
140 extern int      wsncasecmp();
141 extern int      wsprintf();
142 #if defined(_LONGLONG_TYPE)
143 extern long long wstoll();
144 #endif /* defined(_LONGLONG_TYPE) */

146 #endif /* !defined(__STDC__) */

94 /* Returns the code set number for the process code c. */
95 #define WCHAR_SHIFT      7
96 #define WCHAR_S_MASK    0x7f
97 #define wcsetno(c) \
98     (((c)&0x20000000)?((c)&0x10000000)?1:3):((c)&0x10000000)?2:0))

100 /* Aliases... */
101 #define windex          wschr
102 #define wrindex        wsrchr

104 #define watol(s)        wstol((s), (wchar_t **)0, 10)
105 #if defined(_LONGLONG_TYPE) && !defined(__lint)
106 #define watoll(s)       wstoll((s), (wchar_t **)0, 10)
107 #endif /* defined(_LONGLONG_TYPE) && !defined(__lint) */
108 #define watoi(s)        ((int)wstol((s), (wchar_t **)0, 10))
109 #define watof(s)        wstod((s), (wchar_t **)0)

111 /*
112  * other macros.
113  */
114 #define WCHAR_CSMASK    0x30000000
115 #define EUCMASK        0x30000000
116 #define WCHAR_CS0      0x00000000
117 #define WCHAR_CS1      0x30000000
118 #define WCHAR_CS2      0x10000000
119 #define WCHAR_CS3      0x20000000
120 #define WCHAR_BYTE_OF(wc, i) (((wc&~0x30000000)>>(7*(3-i)))&0x7f)

122 #ifdef __cplusplus
123 }

```

unchanged portion omitted

new/usr/src/head/wordexp.h

1

```
*****
2423 Sat Aug 2 23:27:18 2014
new/usr/src/head/wordexp.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2003 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 /*
30  * Copyright 1985, 1992 by Mortice Kern Systems Inc. All rights reserved.
31  */

33 #ifndef _WORDEXP_H
34 #define _WORDEXP_H

34 #pragma ident "%Z%M% %I% %E% SMI"

36 #include <sys/feature_tests.h>
37 #include <sys/types.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 typedef struct wordexp_t {
44     size_t we_wordc; /* Count of paths matched by pattern */
45     char **we_wordv; /* List of matched pathnames */
46     size_t we_offs; /* # of slots reserved in we_pathv */
47     /* following are internal to the implementation */
48     char **we_wordp; /* we_pathv + we_offs */
49     int we_wordn; /* # of elements allocated */
50 } wordexp_t;

52 /*
53  * wordexp flags.
54  */
55 #define WRDE_APPEND 0x0001 /* append to existing wordexp_t */
56 #define WRDE_DOOFFS 0x0002 /* use we_offs */
57 #define WRDE_NOCMD 0x0004 /* don't allow $( ) */
58 #define WRDE_REUSE 0x0008
59 #define WRDE_SHOWERR 0x0010 /* don't 2>/dev/null */
```

new/usr/src/head/wordexp.h

2

```
60 #define WRDE_UNDEF 0x0020 /* set -u */

62 /*
63  * wordexp errors.
64  */
65 #define WRDE_ERRNO (2) /* error in "errno" */
66 #define WRDE_BADCHAR (3) /* shell syntax character */
67 #define WRDE_BADVAL (4) /* undefined variable expanded */
68 #define WRDE_CMDSUB (5) /* prohibited $( ) */
69 #define WRDE_NOSPACE (6) /* no memory */
70 #define WRDE_SYNTAX (7) /* bad syntax */
71 #define WRDE_NOSYS (8) /* function not supported (XPG4) */

73 #ifdef __STDC__
73 extern int wordexp(const char *_RESTRICT_KYWD, wordexp_t *_RESTRICT_KYWD, int);
74 extern void wordfree(wordexp_t *);
76 #else
77 extern int wordexp();
78 extern void wordfree();
79 #endif

76 #ifdef __cplusplus
77 }
_____unchanged_portion_omitted_____
```

new/usr/src/head/xti.h

1

```
*****
17316 Sat Aug  2 23:27:18 2014
new/usr/src/head/xti.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1996 Sun Microsystems, Inc.      */
26 /*      All Rights Reserved      */

29 #ifndef _XTI_H
30 #define _XTI_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/types.h>

34 /*
35  * The following include file has declarations needed by both the kernel
36  * level transport providers and the user level library. This file includes
37  * it to expose its namespaces to XTI user level interface.
38  */
39 #include <sys/tpicommon.h>

41 /*
42  * Include XTI interface level options management declarations
43  */
44 #include <sys/xti_xtiopt.h>

46 #if !defined(_XPG5)

48 /*
49  * Include declarations related to OSI transport and management data
50  * structures, and the Internet Protocol Suite.
51  * Note: The older Unix95/XNS4 XTI spec required these to be
52  * exposed through the generic interface header.
53  */
54 #include <sys/xti_osi.h>
55 #include <sys/xti_inet.h>

57 #endif /* !defined(_XPG5) */

59 #ifdef __cplusplus
```

new/usr/src/head/xti.h

2

```
60 extern "C" {
61 #endif

63 /*
64  * The following t_errno error codes are included in the namespace by
65  * inclusion of <sys/tpicommon.h> above. The english language error strings
66  * associated with the error values are reproduced here for easy reference.
67  *
68  * Error          Value   Error message string
69  * ----          -
70  * TBADADDR      1       Incorrect address format
71  * TBADOPT       2       Incorrect options format
72  * TACCES        3       Illegal permissions
73  * TBADF         4       Illegal file descriptor
74  * TNOADDR       5       Couldn't allocate address
75  * TOUTSTATE     6       Routine will place interface out of state
76  * TBADSEQ       7       Illegal called/calling sequence number
77  * TYSYERR       8       System error
78  * TLOOK         9       An event requires attention
79  * TBADDATA     10      Illegal amount of data
80  * TBUFVFLW     11      Buffer not large enough
81  * TFLOW        12      Can't send message - (blocked)
82  * TNODATA      13      No message currently available
83  * TNODIS       14      Disconnect message not found
84  * TNOUDERR     15      Unitdata error message not found
85  * TBADFLAG     16      Incorrect flags specified
86  * TNOREL       17      Orderly release message not found
87  * TNOTSUPPORT  18      Primitive not supported by provider
88  * TSTATECHNG   19      State is in process of changing
89  * TNOSTRUCTYPE 20      Unsupported structure type requested
90  * TBADNAME     21      Invalid transport provider name
91  * TBADQLEN     22      Listener queue length limit is zero
92  * TADDRBUSY    23      Transport address is in use
93  * TINDOUT      24      Outstanding connection indications
94  * TPROVMISMATCH 25      Listener-acceptor transport provider mismatch
95  * TRESQLEN     26      Connection acceptor has listen queue length
96  *              26      limit greater than zero
97  * TRESADDR     27      Connection acceptor-listener addresses not
98  *              27      same but required by transport
99  * TQFULL       28      Incoming connection queue is full
100 * TPROTO       29      Protocol error on transport primitive
101 *
102 */

104 /*
105  * The following are the events returned by t_look
106  */
107 #define T_LISTEN      0x0001 /* connection indication received */
108 #define T_CONNECT    0x0002 /* connect confirmation received */
109 #define T_DATA       0x0004 /* normal data received */
110 #define T_EXDATA     0x0008 /* expedited data received */
111 #define T_DISCONNECT 0x0010 /* disconnect received */
112 #define T_UDERR      0x0040 /* data gram error indication */
113 #define T_ORDREL     0x0080 /* orderly release indication */
114 #define T_GODATA     0x0100 /* sending normal data is again possible */
115 #define T_GOEXDATA   0x0200 /* sending expedited data is again possible */

117 /*
118  * Flags for data primitives
119  */
120 #define T_MORE        0x001 /* more data */
121 #define T_EXPEDITED  0x002 /* expedited data */
122 #define T_PUSH       0x004 /* send data immediately */

124 /*
125  * XTI error return
```



```

126 */
127 #if defined(_REENTRANT) || defined(_TS_ERRNO)
128 extern int      *_t_errno();
129 #define t_errno (*(_t_errno()))
130 #else
131 extern int t_errno;
132 #endif /* defined(_REENTRANT) || defined(_TS_ERRNO) */

135 /*
136 * The following are for t_sysconf()
137 */
138 #ifndef T_IOV_MAX
139 #define T_IOV_MAX      16      /* Maximum number of scatter/gather buffers */
140 #endif /* Should be <= IOV_MAX */

142 #ifndef _SC_T_IOV_MAX
143 #define _SC_T_IOV_MAX  79      /* Should be same in <unistd.h> for use by */
144 #endif /* sysconf() */

146 struct t_iovec {
147     void      *iov_base;
148     size_t    iov_len;
149 };
unchanged portion omitted

359 /*
360 * The following are structure types used when dynamically
361 * allocating the above structures via t_structalloc().
362 */
363 #define T_BIND      1      /* struct t_bind */
364 #define T_OPTMGMT  2      /* struct t_optmgmt */
365 #define T_CALL     3      /* struct t_call */
366 #define T_DIS     4      /* struct t_discon */
367 #define T_UNITDATA 5      /* struct t_unitdata */
368 #define T_UDERROR  6      /* struct t_uderr */
369 #define T_INFO     7      /* struct t_info */

371 /*
372 * The following bits specify which fields of the above
373 * structures should be allocated by t_alloc().
374 */
375 #define T_ADDR     0x01    /* address */
376 #define T_OPT     0x02    /* options */
377 #define T_UDATA   0x04    /* user data */
378 #define T_ALL     0xffff  /* all the above fields */

381 /*
382 * the following are the states for the user
383 */

385 #define T_UNINIT   0      /* uninitialized */
386 #define T_UNBND   1      /* unbound */
387 #define T_IDLE    2      /* idle */
388 #define T_OUTCON  3      /* outgoing connection pending */
389 #define T_INCON   4      /* incoming connection pending */
390 #define T_DATAXFER 5      /* data transfer */
391 #define T_OUTREL  6      /* outgoing release pending */
392 #define T_INREL   7      /* incoming release pending */

395 #define T_UNUSED  -1
396 #define T_NULL    0

```

```

399 /*
400 * Allegedly general purpose constant. Used with (and needs to be bitwise
401 * distinct from) T_NOPROTECT, T_PASSIVEPROTECT and T_ACTIVEPROTECT
402 * which are OSI specific constants but part of this header (defined
403 * in <xti_osi.h> which is included in this header for historical
404 * XTI specification reasons)
405 */
406 #define T_ABSREQ      0x8000

408 /*
409 * General definitions for option management
410 */
411 * Multiple variable length options may be packed into a single option buffer.
412 * Each option consists of a fixed length header followed by variable length
413 * data. The header and data will have to be aligned at appropriate
414 * boundaries. The following macros are used to manipulate the options.
415 */
416 * Helper Macros: Macros beginning with a "_T" prefix are helper macros.
417 * They are private, not meant for public use and may
418 * change without notice. Users should use the standard
419 * XTI macros beginning with "T_" prefix
420 */

422 #define _T_OPT_HALIGN_SZ      (sizeof (t_scalar_t)) /* Hdr Alignment size */
423 #define _T_OPT_DALIGN_SZ     (sizeof (int32_t))    /* Data Alignment size */
424 #define _T_OPTHDR_SZ         (sizeof (struct t_opthdr))

426 /* Align 'x' to the next 'asize' alignment boundary */
427 #define _T_OPT_ALIGN(x, asize) \
428     (((uintptr_t)(x) + ((asize) - 1L)) & ~((asize) - 1L))

430 /* Align 'x' to the next header alignment boundary */
431 #define _T_OPTHDR_ALIGN(x) \
432     (_T_OPT_ALIGN((x), _T_OPT_HALIGN_SZ))

434 /* Align 'x' to the next data alignment boundary */
435 #define _T_OPTDATA_ALIGN(x) \
436     (_T_OPT_ALIGN((x), _T_OPT_DALIGN_SZ))

438 /*
439 * struct t_opthdr *T_OPT_FIRSTHDR(struct netbuf *nbp):
440 * Get aligned start of first option header
441 */
442 * unsigned char *T_OPT_DATA(struct t_opthdr *tohp):
443 * Get aligned start of data part after option header
444 */
445 * struct t_opthdr *T_OPT_NEXTHDR(struct netbuf *nbp, struct t_opthdr *tohp):
446 * Skip to next option header
447 */

449 #define T_OPT_FIRSTHDR(nbp) \
450     ((nbp)->len >= _T_OPTHDR_SZ ? (struct t_opthdr *) (nbp)->buf : \
451     (struct t_opthdr *) 0)

453 #define T_OPT_DATA(tohp) \
454     ((unsigned char *) _T_OPTDATA_ALIGN((char *) (tohp) + _T_OPTHDR_SZ))

456 #define _T_NEXTHDR(pbuf, buflen, popt) \
457     (((char *) _T_OPTHDR_ALIGN((char *) (popt) + (popt)->len) + \
458     _T_OPTHDR_SZ <= ((char *) (pbuf) + (buflen))) ? \
459     (struct t_opthdr *) ((char *) _T_OPTHDR_ALIGN((char *) (popt) + \
460     (popt)->len)) : (struct t_opthdr *) 0)

462 #define T_OPT_NEXTHDR(nbp, tohp) (_T_NEXTHDR((nbp)->buf, (nbp)->len, (tohp)))

464 #if !defined(_XPG5)

```

```

465 /*
466 * The macros below are meant for older applications for compatibility.
467 * New applications should use the T_OPT_* macros, obviating the need
468 * to explicitly use the T_ALIGN macro
469 *
470 * struct t_opthdr *OPT_NEXTHDR(char *pbuf, unsigned int buflen,
471 *                               struct t_opthdr *popt):
472 *                               Skip to next option header
473 */
474 #define T_ALIGN(p)      (((uintptr_t)(p) + (sizeof (t_scalar_t) - 1))\
475 & ~(sizeof (t_scalar_t) - 1))
476 #define OPT_NEXTHDR(pbuf, buflen, popt) (_T_NEXTHDR((pbuf), (buflen), (popt)))
477 #endif
478
479 /*
480 * XTI LIBRARY FUNCTIONS
481 */
482 #if defined(__STDC__)
483 #if defined(_XOPEN_SOURCE) && !defined(_XPG5)
484 extern int t_accept(int, int, struct t_call *);
485 extern char *t_alloc(int, int, int);
486 extern int t_bind(int, struct t_bind *, struct t_bind *);
487 extern int t_connect(int, struct t_call *, struct t_call *);
488 extern int t_error(char *);
489 extern int t_free(char *, int);
490 extern int t_open(char *, int, struct t_info *);
491 extern int t_optmgmt(int, struct t_optmgmt *, struct t_optmgmt *);
492 extern int t_rcv(int, char *, unsigned int, int *);
493 extern int t_snd(int, char *, unsigned int, int);
494 extern int t_snddis(int, struct t_call *);
495 extern int t_sndudata(int, struct t_unitdata *);
496 extern char *t_strerror(int);
497 #else
498 extern int t_accept(int, int, const struct t_call *);
499 extern void *t_alloc(int, int, int);
500 extern int t_bind(int, const struct t_bind *, struct t_bind *);
501 extern int t_connect(int, const struct t_call *, struct t_call *);
502 extern int t_error(const char *);
503 extern int t_free(void *, int);
504 extern int t_open(const char *, int, struct t_info *);
505 extern int t_optmgmt(int, const struct t_optmgmt *, struct t_optmgmt *);
506 extern int t_rcv(int, void *, unsigned int, int *);
507 extern int t_snd(int, void *, unsigned int, int);
508 extern int t_snddis(int, const struct t_call *);
509 extern int t_sndudata(int, const struct t_unitdata *);
510 extern const char *t_strerror(int);
511 #endif
512 extern int t_close(int);
513 extern int t_getinfo(int, struct t_info *);
514 extern int t_getstate(int);
515 extern int t_getprotaddr(int, struct t_bind *, struct t_bind *);
516 extern int t_listen(int, struct t_call *);
517 extern int t_look(int);
518 extern int t_rcvconnect(int, struct t_call *);
519 extern int t_rcvdis(int, struct t_discon *);
520 extern int t_rcvrel(int);
521 extern int t_rcvreldata(int, struct t_discon *);
522 extern int t_rcvvdata(int, struct t_unitdata *, int *);
523 extern int t_rcvuderr(int, struct t_uderr *);
524 extern int t_rcvv(int, struct t_iovec *, unsigned int, int *);
525 extern int t_rcvvdata(int, struct t_unitdata *, struct t_iovec *,
526 unsigned int, int *);
527 extern int t_sndrel(int);
528 extern int t_sndreldata(int, struct t_discon *);

```

```

529 extern int t_sndv(int, const struct t_iovec *, unsigned int, int);
530 extern int t_sndvdata(int, struct t_unitdata *, struct t_iovec *,
531 unsigned int);
532 extern int t_sync(int);
533 extern int t_sysconf(int);
534 extern int t_unbind(int);
535
536 #endif /* __STDC__ */
537 #ifdef __cplusplus
538 }
539 #endif
540
541 _____unchanged_portion_omitted_____

```

```

*****
4537 Sat Aug 2 23:27:18 2014
new/usr/src/man/man7d/Makefile
5040 need blkdev(7D) man page
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Approved by: TBD
*****
1 #
2 # This file and its contents are supplied under the terms of the
3 # Common Development and Distribution License ("CDDL"), version 1.0.
4 # You may only use this file in accordance with the terms of version
5 # 1.0 of the CDDL.
6 #
7 # A full copy of the text of the CDDL should have accompanied this
8 # source. A copy of the CDDL is also available via the Internet
9 # at http://www.illumos.org/license/CDDL.
10 #
12 #
13 # Copyright 2011, Richard Lowe
14 # Copyright 2013 Nexenta Systems, Inc. All rights reserved.
15 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
16 # Copyright 2013 Garrett D'Amore <garrett@damore.org>
17 #
18 include $(SRC)/Makefile.master
19
20 MANSECT= 7d
21
22 _MANFILES= aac.7d \
23 afe.7d \
24 audio.7d \
25 audio1575.7d \
26 audioens.7d \
27 audiols.7d \
28 audiopl6x.7d \
29 audiopci.7d \
30 audiot.7d \
31 av1394.7d \
32 bge.7d \
33 blkdev.7d \
34 bscv.7d \
35 chxge.7d \
36 console.7d \
37 cpuid.7d \
38 dca.7d \
39 dcaml394.7d \
40 devinfo.7d \
41 dmfe.7d \
42 dtrace.7d \
43 ehci.7d \
44 fasttrap.7d \
45 fbt.7d \
46 fcip.7d \
47 fcoe.7d \
48 fcoei.7d \
49 fcoet.7d \
50 fcp.7d \
51 fctl.7d \
52 fd.7d \
53 fp.7d \
54 gld.7d \
55 hcil394.7d \
56 hermon.7d \
57 hid.7d \
58 hme.7d \

```

```

59 hubd.7d \
60 hwahc.7d \
61 hwarc.7d \
62 hxge.7d \
63 ib.7d \
64 ibcm.7d \
65 ibd.7d \
66 ibdm.7d \
67 ibdma.7d \
68 ibtl.7d \
69 ieee1394.7d \
70 igb.7d \
71 ii.7d \
72 ipnet.7d \
73 iscsi.7d \
74 iser.7d \
75 ixgbe.7d \
76 kmbd.7d \
77 kstat.7d \
78 ksyms.7d \
79 llcl.7d \
80 lockstat.7d \
81 lofi.7d \
82 log.7d \
83 md.7d \
84 mediator.7d \
85 mem.7d \
86 mpt_sas.7d \
87 mr_sas.7d \
88 msglog.7d \
89 mt.7d \
90 mxfe.7d \
91 myri10ge.7d \
92 null.7d \
93 nulldriver.7d \
94 nxge.7d \
95 ohci.7d \
96 openprom.7d \
97 pcic.7d \
98 pcmcia.7d \
99 physmem.7d \
100 pm.7d \
101 poll.7d \
102 profile.7d \
103 ptm.7d \
104 pts.7d \
105 pty.7d \
106 qlc.7d \
107 ramdisk.7d \
108 random.7d \
109 rge.7d \
110 sad.7d \
111 sata.7d \
112 scsa1394.7d \
113 scsa2usb.7d \
114 sd.7d \
115 sdp.7d \
116 sdt.7d \
117 ses.7d \
118 sfe.7d \
119 sgen.7d \
120 srpt.7d \
121 st.7d \
122 sv.7d \
123 sysmsg.7d \
124 systrace.7d \

```

## new/usr/src/man/man7d/Makefile

```

125          ticlts.7d  \
126          tty.7d    \
127          ttymux.7d \
128          tzmon.7d  \
129          ugen.7d   \
130          uhci.7d   \
131          usb_ac.7d  \
132          usb_as.7d  \
133          usb_ia.7d  \
134          usb_mid.7d \
135          usba.7d    \
136          usbftdi.7d \
137          usbprn.7d  \
138          usbsacm.7d \
139          usbsksp.7d \
140          usbspri.7d \
141          usbvc.7d   \
142          uwba.7d    \
143          virtualkm.7d \
144          vni.7d     \
145          vr.7d      \
146          wscons.7d  \
147          wusb_ca.7d \
148          wusb_df.7d \
149          xge.7d     \
150          yge.7d     \
151          zcons.7d   \
152          zero.7d    \

154 sparc_MANFILES= audiocs.7d \
155                  bbc_beep.7d \
156                  ctsmc.7d    \
157                  cvc.7d      \
158                  cvcredir.7d \
159                  dad.7d      \
160                  dm2s.7d     \
161                  dr.7d       \
162                  eri.7d      \
163                  fas.7d      \
164                  gpio_87317.7d \
165                  grbeep.7d   \
166                  idn.7d      \
167                  mc-opl.7d    \
168                  n2rng.7d     \
169                  ncp.7d       \
170                  ntwdt.7d     \
171                  oplkmdrv.7d  \
172                  oplmsu.7d    \
173                  oplpanel.7d  \
174                  pcicmu.7d    \
175                  pcipsy.7d    \
176                  pcisch.7d    \
177                  schpc.7d     \
178                  sf.7d        \
179                  sdbus.7d     \
180                  socal.7d     \
181                  ssd.7d       \
182                  su.7d        \
183                  todopl.7d    \
184                  tsalarm.7d   \
185                  zs.7d        \
186                  zsh.7d       \

188 i386_MANFILES=  ahci.7d     \
189                  amd8111s.7d \
190                  amr.7d      \

```

3

## new/usr/src/man/man7d/Makefile

```

191          arcmsr.7d  \
192          arn.7d     \
193          asy.7d     \
194          ata.7d     \
195          atge.7d    \
196          ath.7d     \
197          atu.7d     \
198          audio810.7d \
199          audiocmi.7d \
200          audiocmihd.7d \
201          audioemu10k.7d \
202          audiohd.7d  \
203          audioixp.7d \
204          audiosolo.7d \
205          audiovia823x.7d \
206          audiovia97.7d \
207          bcm_sata.7d \
208          bfe.7d     \
209          cmdk.7d    \
210          cpgary3.7d \
211          dnet.7d    \
212          ecpp.7d    \
213          heci.7d    \
214          i915.7d    \
215          ipmi.7d    \
216          ipw.7d     \
217          iwh.7d     \
218          iwi.7d     \
219          mega_sas.7d \
220          npe.7d     \
221          ntxn.7d    \
222          nv_sata.7d \
223          pcn.7d     \
224          radeon.7d  \
225          ral.7d     \
226          rtw.7d     \
227          rum.7d     \
228          rwd.7d     \
229          rwn.7d     \
230          sda.7d     \
231          sdcard.7d  \
232          sdhost.7d  \
233          si3124.7d  \
234          smbios.7d  \
235          uath.7d    \
236          ural.7d    \
237          urtw.7d    \
238          wpi.7d     \
239          zyd.7d     \

241 _MANLINKS=  1394.7d \
242             allkmem.7d \
243             bscbus.7d  \
244             fdc.7d     \
245             firewire.7d \
246             hwal480_fw.7d \
247             i2bsc.7d   \
248             kmem.7d    \
249             lo0.7d     \
250             ticots.7d  \
251             ticotsord.7d \
252             urandom.7d \
253             usb.7d     \
254             uwb.7d     \

256 sparc_MANLINKS= drmach.7d \

```

4

**new/usr/src/man/man7d/Makefile**

5

```
257          ngdr.7d      \
258          ngdrmach.7d

260 MANFILES =      $(_MANFILES) $(($(MACH)_MANFILES))
261 MANLINKS =      $(_MANLINKS) $(($(MACH)_MANLINKS))

263 bscbus.7d       := LINKSRC = bscv.7d
264 i2bsc.7d       := LINKSRC = bscv.7d

266 drmach.7d      := LINKSRC = dr.7d
267 ngdr.7d        := LINKSRC = dr.7d
268 ngdrmach.7d    := LINKSRC = dr.7d

270 fdc.7d         := LINKSRC = fd.7d

272 ieee1394.7d    := LINKSRC = ieee1394.7d
273 firewire.7d    := LINKSRC = ieee1394.7d

275 lo0.7d        := LINKSRC = ipnet.7d

277 allkmem.7d     := LINKSRC = mem.7d
278 kmem.7d        := LINKSRC = mem.7d

280 urandom.7d     := LINKSRC = random.7d

282 ticots.7d      := LINKSRC = ticlts.7d
283 ticotsord.7d   := LINKSRC = ticlts.7d

285 usb.7d        := LINKSRC = usba.7d

287 uwb.7d        := LINKSRC = uwba.7d

289 hwa1480_fw.7d := LINKSRC = wusb_df.7d

291 .KEEP_STATE:

293 include        $(SRC)/man/Makefile.man

295 install:      $(ROOTMANFILES) $(ROOTMANLINKS)
```

```

*****
2025 Sat Aug 2 23:27:18 2014
new/usr/src/man/man7d/blkdev.7d
5040 need blkdev(7D) man page
Reviewed by: Joshua M. Clulow <josh@sysmgr.org>
Approved by: TBD
*****
1  \.
2  \. This file and its contents are supplied under the terms of the
3  \. Common Development and Distribution License ("CDDL"), version 1.0.
4  \. You may only use this file in accordance with the terms of version
5  \. 1.0 of the CDDL.
6  \.
7  \. A full copy of the text of the CDDL should have accompanied this
8  \. source. A copy of the CDDL is also available via the Internet at
9  \. http://www.illumos.org/license/CDDL.
10 \.
11 \. Copyright 2014 Garrett D'Amore <garrett@damore.org>
12 .
13 .Dd "Jul 30, 2014"
14 .Dt BLKDEV 7D
15 .Os
16 .Sh NAME
17 .Nm blkdev
18 .Nd generic block device driver
19 .Sh DESCRIPTION
20 The
21 .Nm
22 driver supports generic block-oriented devices, such as non-volatile
23 memory storage devices. It provides a hardware independent layer
24 for such storage devices, allowing them to concentrate on the
25 hardware-specific details, while
26 .Nm
27 takes care of all the other details, such as
28 .Xr dkio 7I .
29 .Lp
30 The
31 .Nm
32 driver only supports block-oriented, random-access devices. It does
33 not support traditional rotational media and does not support
34 SCSI commands.
35 .Lp
36 The most typical use case for
37 .Nm
38 devices is to be used to host a file system, such as
39 .Xr pcfs 7FS
40 or
41 .Xr zfs 7FS .
42 .
43 .Sh INTERFACE STABILITY
44 .Sy Uncommitted .
45 .
46 .Sh FILES
47 .
48 .Bl -tag -compact -width Pa
49 .It Pa /dev/dsk/cndnsn
50 Block device minor nodes.
51 .It Pa /dev/rdisk/cndnsn
52 Raw block device minor nodes.
53 .El
54 .Lp
55 In the above, the following substitutions may occur:
56 .Bl -tag -offset indent -width Va
57 .It Va cn
58 A controller number, typically one for each instance of
59 each underlying hardware dependent device driver (there can be multiple

```

```

60 such drivers in the system.) Controller numbers are dynamically assigned
61 by the system.
62 .It Va dn
63 Generally, each instance of the underlying hardware will have a
64 logical unit number as well.
65 .It Va sn
66 This is the
67 .Em slice
68 number, representing a subset of the disk. See
69 .Xr dkio 7I .
70 .El
71 .
72 .Sh SEE ALSO
73 .Xr devinfo 1M ,
74 .Xr fdisk 1M ,
75 .Xr mount 1M ,
76 .Xr rmformat 1M ,
77 .Xr umount 1M ,
78 .Xr sd 7D ,
79 .Xr pcfs 7FS ,
80 .Xr zfs 7FS ,
81 .Xr dkio 7I

```

new/usr/src/pkg/manifests/driver-storage-blkdev.mf

1

\*\*\*\*\*

1852 Sat Aug 2 23:27:18 2014

new/usr/src/pkg/manifests/driver-storage-blkdev.mf

5040 need blkdev(7D) man page

Reviewed by: Joshua M. Clulow <josh@sysmgr.org>

Approved by: TBD

\*\*\*\*\*

```
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #
21 #
22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 # Copyright 2014 Garrett D'Amore <garrett@damore.org>
25 #
26 #
27 #
28 # The default for payload-bearing actions in this package is to appear in the
29 # global zone only. See the include file for greater detail, as well as
30 # information about overriding the defaults.
31 #
32 <include global_zone_only_component>
33 set name=pkg.fmri value=pkg:/driver/storage/blkdev@(PKGVERS)
34 set name=pkg.description value="Generic Block Driver"
35 set name=pkg.summary value="Generic Block Driver"
36 set name=info.classification \
37     value=org.opensolaris.category.2008:Drivers/Storage
38 set name=variant.arch value=$(ARCH)
39 dir path=kernel group=sys
40 dir path=kernel/drv group=sys
41 dir path=kernel/drv/$(ARCH64) group=sys
42 dir path=usr/share/man
43 dir path=usr/share/man/man7d
44 driver name=blkdev perms="* 0640 root root"
45 file path=kernel/drv/$(ARCH64)/blkdev group=sys
46 $(i386_ONLY)file path=kernel/drv/blkdev group=sys
47 file path=usr/share/man/man7d/blkdev.7d
48 license cr_Sun license=cr_Sun
49 license lic_CDDL license=lic_CDDL
```

new/usr/src/uts/common/sys/acct.h

1

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*****
3092 Sat Aug  2 23:27:18 2014
new/usr/src/uts/common/sys/acct.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25 */
27 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
28 /*      All Rights Reserved      */
30 #ifndef _SYS_ACCT_H
31 #define _SYS_ACCT_H
33 #include <sys/types.h>
34 #include <sys/types32.h>
36 #ifdef __cplusplus
37 extern "C" {
38 #endif
40 /*
41  * Accounting structures
42  */
44 typedef ushort_t comp_t;          /* "floating point" */
45                                 /* 13-bit fraction, 3-bit exponent */
47 /* SVR4 acct structure */
48 struct acct {
49     char    ac_flag;              /* Accounting flag */
50     char    ac_stat;              /* Exit status */
51     uid32_t ac_uid;               /* Accounting user ID */
52     gid32_t ac_gid;              /* Accounting group ID */
53     dev32_t ac_tty;              /* control typewriter */
54     time32_t ac_btime;            /* Beginning time */
55     comp_t  ac_utime;             /* acctng user time in clock ticks */
56     comp_t  ac_stime;             /* acctng system time in clock ticks */
57     comp_t  ac_etime;            /* acctng elapsed time in clock ticks */
58     comp_t  ac_mem;              /* memory usage */
59     comp_t  ac_io;               /* chars transferred */
60     comp_t  ac_rw;               /* blocks read or written */
61     char    ac_comm[8];          /* command name */

```

new/usr/src/uts/common/sys/acct.h

2

```
62 };
    _____
    unchanged_portion_omitted_
65 #if !defined(_KERNEL)
66 #if defined(__STDC__)
67 extern int acct(const char *);
68 #else
69 extern int acct();
70 #endif
71 #endif /* !defined(_KERNEL) */
73 #if defined(_KERNEL)
74 void    acct(char);
75 int     sysacct(char *);
77 struct vnode;
78 int     acct_fs_in_use(struct vnode *);
79 #endif
81 #define AFORK    0001           /* has executed fork, but no exec */
82 #define ASU      0002           /* used super-user privileges */
83 #define AEXPND   0040           /* expanded acct structure */
84 #define ACCTF    0300           /* record type: 00 = acct */
86 #ifdef __cplusplus
87 }
88 _____
89 unchanged_portion_omitted_

```



new/usr/src/uts/common/sys/acl.h

1

```
*****
9807 Sat Aug 2 23:27:18 2014
new/usr/src/uts/common/sys/acl.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
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14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 #ifndef _SYS_ACL_H
29 #define _SYS_ACL_H

31 #include <sys/types.h>
32 #include <sys/acl_impl.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 #define MAX_ACL_ENTRIES      (1024) /* max entries of each type */
39 typedef struct acl {
40     int          a_type;          /* the type of ACL entry */
41     uid_t        a_id;           /* the entry in -uid or gid */
42     o_mode_t     a_perm;        /* the permission field */
43 } aclent_t;
44 unchanged portion omitted

151 #endif

153 #define ACE_ALL_PERMS      (ACE_READ_DATA|ACE_LIST_DIRECTORY|ACE_WRITE_DATA| \
154     ACE_ADD_FILE|ACE_APPEND_DATA|ACE_ADD_SUBDIRECTORY|ACE_READ_NAMED_ATTRS| \
155     ACE_WRITE_NAMED_ATTRS|ACE_EXECUTE|ACE_DELETE_CHILD|ACE_READ_ATTRIBUTES| \
156     ACE_WRITE_ATTRIBUTES|ACE_DELETE|ACE_READ_ACL|ACE_WRITE_ACL| \
157     ACE_WRITE_OWNER|ACE_SYNCHRONIZE)

159 #define ACE_ALL_WRITE_PERMS (ACE_WRITE_DATA|ACE_APPEND_DATA| \
160     ACE_WRITE_ATTRIBUTES|ACE_WRITE_NAMED_ATTRS|ACE_WRITE_ACL| \
161     ACE_WRITE_OWNER|ACE_DELETE|ACE_DELETE_CHILD)

163 #define ACE_READ_PERMS    (ACE_READ_DATA|ACE_READ_ACL|ACE_READ_ATTRIBUTES| \
164     ACE_READ_NAMED_ATTRS)

166 #define ACE_WRITE_PERMS  (ACE_WRITE_DATA|ACE_APPEND_DATA|ACE_WRITE_ATTRIBUTES| \
```

new/usr/src/uts/common/sys/acl.h

2

```
167     ACE_WRITE_NAMED_ATTRS)

169 #define ACE_MODIFY_PERMS (ACE_READ_DATA|ACE_LIST_DIRECTORY|ACE_WRITE_DATA| \
170     ACE_ADD_FILE|ACE_APPEND_DATA|ACE_ADD_SUBDIRECTORY|ACE_READ_NAMED_ATTRS| \
171     ACE_WRITE_NAMED_ATTRS|ACE_EXECUTE|ACE_DELETE_CHILD|ACE_READ_ATTRIBUTES| \
172     ACE_WRITE_ATTRIBUTES|ACE_DELETE|ACE_READ_ACL|ACE_SYNCHRONIZE)
173 /*
174 * The following flags are supported by both NFSv4 ACLs and ace_t.
175 */
176 #define ACE_NFSV4_SUP_FLAGS (ACE_FILE_INHERIT_ACE | \
177     ACE_DIRECTORY_INHERIT_ACE | \
178     ACE_NO_PROPAGATE_INHERIT_ACE | \
179     ACE_INHERIT_ONLY_ACE | \
180     ACE_IDENTIFIER_GROUP)

182 #define ACE_TYPE_FLAGS      (ACE_OWNER|ACE_GROUP|ACE_EVERYONE| \
183     ACE_IDENTIFIER_GROUP)
184 #define ACE_INHERIT_FLAGS  (ACE_FILE_INHERIT_ACE | \
185     ACE_DIRECTORY_INHERIT_ACE|ACE_NO_PROPAGATE_INHERIT_ACE|ACE_INHERIT_ONLY_ACE)

187 /* cmd args to acl(2) for aclent_t */
188 #define GETACL              1
189 #define SETACL              2
190 #define GETACLCNT          3

192 /* cmd's to manipulate ace acls. */
193 #define ACE_GETACL          4
194 #define ACE_SETACL          5
195 #define ACE_GETACLCNT      6

197 /* minimal acl entries from GETACLCNT */
198 #define MIN_ACL_ENTRIES    4

200 #if !defined(_KERNEL)

202 /* acl check errors */
203 #define GRP_ERROR          1
204 #define USER_ERROR        2
205 #define OTHER_ERROR        3
206 #define CLASS_ERROR        4
207 #define DUPLICATE_ERROR    5
208 #define MISS_ERROR         6
209 #define MEM_ERROR          7
210 #define ENTRY_ERROR        8

213 /*
214 * similar to ufs_acl.h: changed to char type for user commands (tar, cpio)
215 * Attribute types
216 */
217 #define UFS_FREE           ('0') /* Free entry */
218 #define UFS_ACL            ('1') /* Access Control Lists */
219 #define UFS_DFACL          ('2') /* reserved for future use */
220 #define ACE_ACL            ('3') /* ace_t style acls */

222 /*
223 * flag to [f]acl_get()
224 * controls whether a trivial acl should be returned.
225 */
226 #define ACL_NO_TRIVIAL    0x2

229 /*
230 * Flags to control acl_totext()
231 */
```

new/usr/src/uts/common/sys/acl.h

3

```
233 #define ACL_APPEND_ID 0x1 /* append uid/gid to user/group entries */
234 #define ACL_COMPACT_FMT 0x2 /* build ACL in ls -V format */
235 #define ACL_NORESOLVE 0x4 /* don't do name service lookups */
236 #define ACL_SID_FMT 0x8 /* use usersid/groupsid when appropriate */

238 /*
239 * Legacy aclcheck errors for aclent_t ACLs
240 */
241 #define EACL_GRP_ERROR GRP_ERROR
242 #define EACL_USER_ERROR USER_ERROR
243 #define EACL_OTHER_ERROR OTHER_ERROR
244 #define EACL_CLASS_ERROR CLASS_ERROR
245 #define EACL_DUPLICATE_ERROR DUPLICATE_ERROR
246 #define EACL_MISS_ERROR MISS_ERROR
247 #define EACL_MEM_ERROR MEM_ERROR
248 #define EACL_ENTRY_ERROR ENTRY_ERROR

250 #define EACL_INHERIT_ERROR 9 /* invalid inherit flags */
251 #define EACL_FLAGS_ERROR 10 /* unknown flag value */
252 #define EACL_PERM_MASK_ERROR 11 /* unknown permission */
253 #define EACL_COUNT_ERROR 12 /* invalid acl count */

255 #define EACL_INVALID_SLOT 13 /* invalid acl slot */
256 #define EACL_NO_ACL_ENTRY 14 /* Entry doesn't exist */
257 #define EACL_DIFF_TYPE 15 /* acls aren't same type */

259 #define EACL_INVALID_USER_GROUP 16 /* need user/group name */
260 #define EACL_INVALID_STR 17 /* invalid acl string */
261 #define EACL_FIELD_NOT_BLANK 18 /* can't have blank field */
262 #define EACL_INVALID_ACCESS_TYPE 19 /* invalid access type */
263 #define EACL_UNKNOWN_DATA 20 /* Unrecognized data in ACL */
264 #define EACL_MISSING_FIELDS 21 /* missing fields in acl */

266 #define EACL_INHERIT_NOTDIR 22 /* Need dir for inheritance */

268 extern int aclcheck(aclent_t *, int, int *);
269 extern int acltomode(aclent_t *, int, mode_t *);
270 extern int aclfrommode(aclent_t *, int, mode_t *);
271 extern int aclsort(int, int, aclent_t *);
272 extern char *acltotext(aclent_t *, int);
273 extern aclent_t *aclfromtext(char *, int *);
274 extern void acl_free(acl_t *);
275 extern int acl_get(const char *, int, acl_t **);
276 extern int facl_get(int, int, acl_t **);
277 extern int acl_set(const char *, acl_t *acl);
278 extern int facl_set(int, acl_t *acl);
279 extern int acl_strip(const char *, uid_t, gid_t, mode_t);
280 extern int acl_trivial(const char *);
281 extern char *acl_totext(acl_t *, int);
282 extern int acl_fromtext(const char *, acl_t **);
283 extern int acl_check(acl_t *, int);

285 #else /* !defined(_KERNEL) */

287 extern void ksort(caddr_t, int, int, int (*)(void *, void *));
288 extern int cmp2acls(void *, void *);

290 #endif /* !defined(_KERNEL) */

290 #if defined(__STDC__)
292 extern int acl(const char *path, int cmd, int cnt, void *buf);
293 extern int facl(int fd, int cmd, int cnt, void *buf);
293 #else /* !_STDC_ */
294 extern int acl();
295 extern int facl();
296 #endif /* defined(__STDC__) */
```

new/usr/src/uts/common/sys/acl.h

4

```
295 #ifdef __cplusplus
296 }
_____unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/aioch.h

1

```
*****
4269 Sat Aug 2 23:27:19 2014
new/usr/src/uts/common/sys/aioch.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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9  * or http://www.opensolaris.org/os/licensing.
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11 * and limitations under the License.
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17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 #ifndef _SYS_AIOCB_H
30 #define _SYS_AIOCB_H

32 #pragma ident      "%Z%M% %I%      %E% SMI"

33 #include <sys/types.h>
34 #include <sys/fcntl.h>
35 #include <sys/siginfo.h>
36 #include <sys/aio.h>

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 typedef struct aioch {
42     int         aio_fildes;
43     #if      defined(__STDC__)
44     volatile void *aio_buf;          /* buffer location */
45     #else
46     void        *aio_buf;          /* buffer location */
47     #endif
48     size_t      aio_nbytes;        /* length of transfer */
49     off_t       aio_offset;        /* file offset */
50     int         aio_reqprio;       /* request priority offset */
51     struct sigevent aio_sigevent; /* notification type */
52     int         aio_lio_opcode;    /* listio operation */
53     aio_result_t aio_resultp;      /* results */
54     int         aio_state;         /* state flag for List I/O */
55     int         aio_pad[1];       /* extension padding */
56 } aioch_t;

57 #ifdef _LARGEFILE64_SOURCE
58 #if      !defined(_KERNEL)
```

new/usr/src/uts/common/sys/aioch.h

2

```
56 typedef struct aioch64 {
57     int         aio_fildes;
58     #if      defined(__STDC__)
59     volatile void *aio_buf;          /* buffer location */
60     #else
61     void        *aio_buf;          /* buffer location */
62     #endif
63     size_t      aio_nbytes;        /* length of transfer */
64     off64_t     aio_offset;        /* file offset */
65     int         aio_reqprio;       /* request priority offset */
66     struct sigevent aio_sigevent; /* notification type */
67     int         aio_lio_opcode;    /* listio operation */
68     aio_result_t aio_resultp;      /* results */
69     int         aio_state;         /* state flag for List I/O */
70     int         aio_pad[1];       /* extension padding */
71 } aioch64_t;
72 #endif
73 #endif
74 #endif
75 #endif
76 #endif
77 #endif
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new/usr/src/uts/common/sys/atomic.h

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*****
11198 Sat Aug  2 23:27:19 2014
new/usr/src/uts/common/sys/atomic.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */
29 #ifndef _SYS_ATOMIC_H
30 #define _SYS_ATOMIC_H
32 #pragma ident      "%Z%M% %I%      %E% SMI"
33 #include <sys/types.h>
34 #include <sys/inttypes.h>
35 #ifdef __cplusplus
36 extern "C" {
37 #endif
39 #if defined(_KERNEL) && defined(__GNUC__) && defined(_ASM_INLINES) && \
40     (defined(__i386) || defined(__amd64))
41 #include <asm/atomic.h>
42 #endif
44 #if defined(_KERNEL) || defined(__STDC__)
44 /*
45  * Increment target.
46  */
47 extern void atomic_inc_8(volatile uint8_t *);
48 extern void atomic_inc_uchar(volatile uchar_t *);
49 extern void atomic_inc_16(volatile uint16_t *);
50 extern void atomic_inc_ushort(volatile ushort_t *);
51 extern void atomic_inc_32(volatile uint32_t *);
52 extern void atomic_inc_uint(volatile uint_t *);
53 extern void atomic_inc_ulong(volatile ulong_t *);
54 #if defined(_KERNEL) || defined(_INT64_TYPE)
55 extern void atomic_inc_64(volatile uint64_t *);
56 #endif
57 /*
```

new/usr/src/uts/common/sys/atomic.h

2

```
58  * Decrement target
59  */
60 extern void atomic_dec_8(volatile uint8_t *);
61 extern void atomic_dec_uchar(volatile uchar_t *);
62 extern void atomic_dec_16(volatile uint16_t *);
63 extern void atomic_dec_ushort(volatile ushort_t *);
64 extern void atomic_dec_32(volatile uint32_t *);
65 extern void atomic_dec_uint(volatile uint_t *);
66 extern void atomic_dec_ulong(volatile ulong_t *);
67 #if defined(_KERNEL) || defined(_INT64_TYPE)
68 extern void atomic_dec_64(volatile uint64_t *);
69 #endif
71 /*
72  * Add delta to target
73  */
74 extern void atomic_add_8(volatile uint8_t *, int8_t);
75 extern void atomic_add_char(volatile uchar_t *, signed char);
76 extern void atomic_add_16(volatile uint16_t *, int16_t);
77 extern void atomic_add_short(volatile ushort_t *, short);
78 extern void atomic_add_32(volatile uint32_t *, int32_t);
79 extern void atomic_add_int(volatile uint_t *, int);
80 extern void atomic_add_ptr(volatile void *, ssize_t);
81 extern void atomic_add_long(volatile ulong_t *, long);
82 #if defined(_KERNEL) || defined(_INT64_TYPE)
83 extern void atomic_add_64(volatile uint64_t *, int64_t);
84 #endif
86 /*
87  * logical OR bits with target
88  */
89 extern void atomic_or_8(volatile uint8_t *, uint8_t);
90 extern void atomic_or_uchar(volatile uchar_t *, uchar_t);
91 extern void atomic_or_16(volatile uint16_t *, uint16_t);
92 extern void atomic_or_ushort(volatile ushort_t *, ushort_t);
93 extern void atomic_or_32(volatile uint32_t *, uint32_t);
94 extern void atomic_or_uint(volatile uint_t *, uint_t);
95 extern void atomic_or_ulong(volatile ulong_t *, ulong_t);
96 #if defined(_KERNEL) || defined(_INT64_TYPE)
97 extern void atomic_or_64(volatile uint64_t *, uint64_t);
98 #endif
100 /*
101  * logical AND bits with target
102  */
103 extern void atomic_and_8(volatile uint8_t *, uint8_t);
104 extern void atomic_and_uchar(volatile uchar_t *, uchar_t);
105 extern void atomic_and_16(volatile uint16_t *, uint16_t);
106 extern void atomic_and_ushort(volatile ushort_t *, ushort_t);
107 extern void atomic_and_32(volatile uint32_t *, uint32_t);
108 extern void atomic_and_uint(volatile uint_t *, uint_t);
109 extern void atomic_and_ulong(volatile ulong_t *, ulong_t);
110 #if defined(_KERNEL) || defined(_INT64_TYPE)
111 extern void atomic_and_64(volatile uint64_t *, uint64_t);
112 #endif
114 /*
115  * As above, but return the new value. Note that these_nv() variants are
116  * substantially more expensive on some platforms than the no-return-value
117  * versions above, so don't use them unless you really need to know the
118  * new value *atomically* (e.g. when decrementing a reference count and
119  * checking whether it went to zero).
120  */
122 /*
123  * Increment target and return new value.
```

```

124 */
125 extern uint8_t atomic_inc_8_nv(volatile uint8_t *);
126 extern uchar_t atomic_inc_uchar_nv(volatile uchar_t *);
127 extern uint16_t atomic_inc_16_nv(volatile uint16_t *);
128 extern ushort_t atomic_inc_ushort_nv(volatile ushort_t *);
129 extern uint32_t atomic_inc_32_nv(volatile uint32_t *);
130 extern uint_t atomic_inc_uint_nv(volatile uint_t *);
131 extern ulong_t atomic_inc_ulong_nv(volatile ulong_t *);
132 #if defined(_KERNEL) || defined(_INT64_TYPE)
133 extern uint64_t atomic_inc_64_nv(volatile uint64_t *);
134 #endif

136 /*
137  * Decrement target and return new value.
138 */
139 extern uint8_t atomic_dec_8_nv(volatile uint8_t *);
140 extern uchar_t atomic_dec_uchar_nv(volatile uchar_t *);
141 extern uint16_t atomic_dec_16_nv(volatile uint16_t *);
142 extern ushort_t atomic_dec_ushort_nv(volatile ushort_t *);
143 extern uint32_t atomic_dec_32_nv(volatile uint32_t *);
144 extern uint_t atomic_dec_uint_nv(volatile uint_t *);
145 extern ulong_t atomic_dec_ulong_nv(volatile ulong_t *);
146 #if defined(_KERNEL) || defined(_INT64_TYPE)
147 extern uint64_t atomic_dec_64_nv(volatile uint64_t *);
148 #endif

150 /*
151  * Add delta to target
152 */
153 extern uint8_t atomic_add_8_nv(volatile uint8_t *, int8_t);
154 extern uchar_t atomic_add_char_nv(volatile uchar_t *, signed char);
155 extern uint16_t atomic_add_16_nv(volatile uint16_t *, int16_t);
156 extern ushort_t atomic_add_ushort_nv(volatile ushort_t *, short);
157 extern uint32_t atomic_add_32_nv(volatile uint32_t *, int32_t);
158 extern uint_t atomic_add_int_nv(volatile uint_t *, int);
159 extern void *atomic_add_ptr_nv(volatile void *, ssize_t);
160 extern ulong_t atomic_add_long_nv(volatile ulong_t *, long);
161 #if defined(_KERNEL) || defined(_INT64_TYPE)
162 extern uint64_t atomic_add_64_nv(volatile uint64_t *, int64_t);
163 #endif

165 /*
166  * logical OR bits with target and return new value.
167 */
168 extern uint8_t atomic_or_8_nv(volatile uint8_t *, uint8_t);
169 extern uchar_t atomic_or_uchar_nv(volatile uchar_t *, uchar_t);
170 extern uint16_t atomic_or_16_nv(volatile uint16_t *, uint16_t);
171 extern ushort_t atomic_or_ushort_nv(volatile ushort_t *, ushort_t);
172 extern uint32_t atomic_or_32_nv(volatile uint32_t *, uint32_t);
173 extern uint_t atomic_or_uint_nv(volatile uint_t *, uint_t);
174 extern ulong_t atomic_or_ulong_nv(volatile ulong_t *, ulong_t);
175 #if defined(_KERNEL) || defined(_INT64_TYPE)
176 extern uint64_t atomic_or_64_nv(volatile uint64_t *, uint64_t);
177 #endif

179 /*
180  * logical AND bits with target and return new value.
181 */
182 extern uint8_t atomic_and_8_nv(volatile uint8_t *, uint8_t);
183 extern uchar_t atomic_and_uchar_nv(volatile uchar_t *, uchar_t);
184 extern uint16_t atomic_and_16_nv(volatile uint16_t *, uint16_t);
185 extern ushort_t atomic_and_ushort_nv(volatile ushort_t *, ushort_t);
186 extern uint32_t atomic_and_32_nv(volatile uint32_t *, uint32_t);
187 extern uint_t atomic_and_uint_nv(volatile uint_t *, uint_t);
188 extern ulong_t atomic_and_ulong_nv(volatile ulong_t *, ulong_t);
189 #if defined(_KERNEL) || defined(_INT64_TYPE)

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```

190 extern uint64_t atomic_and_64_nv(volatile uint64_t *, uint64_t);
191 #endif

193 /*
194  * If *arg1 == arg2, set *arg1 = arg3; return old value
195 */
196 extern uint8_t atomic_cas_8(volatile uint8_t *, uint8_t, uint8_t);
197 extern uchar_t atomic_cas_uchar(volatile uchar_t *, uchar_t, uchar_t);
198 extern uint16_t atomic_cas_16(volatile uint16_t *, uint16_t, uint16_t);
199 extern ushort_t atomic_cas_ushort(volatile ushort_t *, ushort_t, ushort_t);
200 extern uint32_t atomic_cas_32(volatile uint32_t *, uint32_t, uint32_t);
201 extern uint_t atomic_cas_uint(volatile uint_t *, uint_t, uint_t);
202 extern void *atomic_cas_ptr(volatile void *, void *, void *);
203 extern ulong_t atomic_cas_ulong(volatile ulong_t *, ulong_t, ulong_t);
204 #if defined(_KERNEL) || defined(_INT64_TYPE)
205 extern uint64_t atomic_cas_64(volatile uint64_t *, uint64_t, uint64_t);
206 #endif

208 /*
209  * Swap target and return old value
210 */
211 extern uint8_t atomic_swap_8(volatile uint8_t *, uint8_t);
212 extern uchar_t atomic_swap_uchar(volatile uchar_t *, uchar_t);
213 extern uint16_t atomic_swap_16(volatile uint16_t *, uint16_t);
214 extern ushort_t atomic_swap_ushort(volatile ushort_t *, ushort_t);
215 extern uint32_t atomic_swap_32(volatile uint32_t *, uint32_t);
216 extern uint_t atomic_swap_uint(volatile uint_t *, uint_t);
217 extern void *atomic_swap_ptr(volatile void *, void *);
218 extern ulong_t atomic_swap_ulong(volatile ulong_t *, ulong_t);
219 #if defined(_KERNEL) || defined(_INT64_TYPE)
220 extern uint64_t atomic_swap_64(volatile uint64_t *, uint64_t);
221 #endif

223 /*
224  * Perform an exclusive atomic bit set/clear on a target.
225  * Returns 0 if bit was successfully set/cleared, or -1
226  * if the bit was already set/cleared.
227 */
228 extern int atomic_set_long_excl(volatile ulong_t *, uint_t);
229 extern int atomic_clear_long_excl(volatile ulong_t *, uint_t);

231 /*
232  * Generic memory barrier used during lock entry, placed after the
233  * memory operation that acquires the lock to guarantee that the lock
234  * protects its data. No stores from after the memory barrier will
235  * reach visibility, and no loads from after the barrier will be
236  * resolved, before the lock acquisition reaches global visibility.
237 */
238 extern void membar_enter(void);

240 /*
241  * Generic memory barrier used during lock exit, placed before the
242  * memory operation that releases the lock to guarantee that the lock
243  * protects its data. All loads and stores issued before the barrier
244  * will be resolved before the subsequent lock update reaches visibility.
245 */
246 extern void membar_exit(void);

248 /*
249  * Arrange that all stores issued before this point in the code reach
250  * global visibility before any stores that follow; useful in producer
251  * modules that update a data item, then set a flag that it is available.
252  * The memory barrier guarantees that the available flag is not visible
253  * earlier than the updated data, i.e. it imposes store ordering.
254 */
255 extern void membar_producer(void);

```

```

257 /*
258 * Arrange that all loads issued before this point in the code are
259 * completed before any subsequent loads; useful in consumer modules
260 * that check to see if data is available and read the data.
261 * The memory barrier guarantees that the data is not sampled until
262 * after the available flag has been seen, i.e. it imposes load ordering.
263 */
264 extern void membar_consumer(void);
265 #endif

269 #if !defined(KERNEL) && !defined(__STDC__)
270 extern void atomic_inc_8();
271 extern void atomic_inc_uchar();
272 extern void atomic_inc_16();
273 extern void atomic_inc_ushort();
274 extern void atomic_inc_32();
275 extern void atomic_inc_uint();
276 extern void atomic_inc_ulong();
277 #if defined(_INT64_TYPE)
278 extern void atomic_inc_64();
279 #endif /* defined(_INT64_TYPE) */
280 extern void atomic_dec_8();
281 extern void atomic_dec_uchar();
282 extern void atomic_dec_16();
283 extern void atomic_dec_ushort();
284 extern void atomic_dec_32();
285 extern void atomic_dec_uint();
286 extern void atomic_dec_ulong();
287 #if defined(_INT64_TYPE)
288 extern void atomic_dec_64();
289 #endif /* defined(_INT64_TYPE) */
290 extern void atomic_add_8();
291 extern void atomic_add_char();
292 extern void atomic_add_16();
293 extern void atomic_add_ushort();
294 extern void atomic_add_32();
295 extern void atomic_add_int();
296 extern void atomic_add_ptr();
297 extern void atomic_add_long();
298 #if defined(_INT64_TYPE)
299 extern void atomic_add_64();
300 #endif /* defined(_INT64_TYPE) */
301 extern void atomic_or_8();
302 extern void atomic_or_uchar();
303 extern void atomic_or_16();
304 extern void atomic_or_ushort();
305 extern void atomic_or_32();
306 extern void atomic_or_uint();
307 extern void atomic_or_ulong();
308 #if defined(_INT64_TYPE)
309 extern void atomic_or_64();
310 #endif /* defined(_INT64_TYPE) */
311 extern void atomic_and_8();
312 extern void atomic_and_uchar();
313 extern void atomic_and_16();
314 extern void atomic_and_ushort();
315 extern void atomic_and_32();
316 extern void atomic_and_uint();
317 extern void atomic_and_ulong();
318 #if defined(_INT64_TYPE)
319 extern void atomic_and_64();
320 #endif /* defined(_INT64_TYPE) */
321 extern uint8_t atomic_inc_8_nv();
322 extern uchar_t atomic_inc_uchar_nv();
323 extern uint16_t atomic_inc_16_nv();

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```

324 extern ushort_t atomic_inc_ushort_nv();
325 extern uint32_t atomic_inc_32_nv();
326 extern uint_t atomic_inc_uint_nv();
327 extern ulong_t atomic_inc_ulong_nv();
328 #if defined(_INT64_TYPE)
329 extern uint64_t atomic_inc_64_nv();
330 #endif /* defined(_INT64_TYPE) */
331 extern uint8_t atomic_dec_8_nv();
332 extern uchar_t atomic_dec_uchar_nv();
333 extern uint16_t atomic_dec_16_nv();
334 extern ushort_t atomic_dec_ushort_nv();
335 extern uint32_t atomic_dec_32_nv();
336 extern uint_t atomic_dec_uint_nv();
337 extern ulong_t atomic_dec_ulong_nv();
338 #if defined(_INT64_TYPE)
339 extern uint64_t atomic_dec_64_nv();
340 #endif /* defined(_INT64_TYPE) */
341 extern uint8_t atomic_add_8_nv();
342 extern uchar_t atomic_add_char_nv();
343 extern uint16_t atomic_add_16_nv();
344 extern ushort_t atomic_add_ushort_nv();
345 extern uint32_t atomic_add_32_nv();
346 extern uint_t atomic_add_int_nv();
347 extern void *atomic_add_ptr_nv();
348 extern ulong_t atomic_add_long_nv();
349 #if defined(_INT64_TYPE)
350 extern uint64_t atomic_add_64_nv();
351 #endif /* defined(_INT64_TYPE) */
352 extern uint8_t atomic_or_8_nv();
353 extern uchar_t atomic_or_uchar_nv();
354 extern uint16_t atomic_or_16_nv();
355 extern ushort_t atomic_or_ushort_nv();
356 extern uint32_t atomic_or_32_nv();
357 extern uint_t atomic_or_uint_nv();
358 extern ulong_t atomic_or_ulong_nv();
359 #if defined(_INT64_TYPE)
360 extern uint64_t atomic_or_64_nv();
361 #endif /* defined(_INT64_TYPE) */
362 extern uint8_t atomic_and_8_nv();
363 extern uchar_t atomic_and_uchar_nv();
364 extern uint16_t atomic_and_16_nv();
365 extern ushort_t atomic_and_ushort_nv();
366 extern uint32_t atomic_and_32_nv();
367 extern uint_t atomic_and_uint_nv();
368 extern ulong_t atomic_and_ulong_nv();
369 #if defined(_INT64_TYPE)
370 extern uint64_t atomic_and_64_nv();
371 #endif /* defined(_INT64_TYPE) */
372 extern uint8_t atomic_cas_8();
373 extern uchar_t atomic_cas_uchar();
374 extern uint16_t atomic_cas_16();
375 extern ushort_t atomic_cas_ushort();
376 extern uint32_t atomic_cas_32();
377 extern uint_t atomic_cas_uint();
378 extern void *atomic_cas_ptr();
379 extern ulong_t atomic_cas_ulong();
380 #if defined(_INT64_TYPE)
381 extern uint64_t atomic_cas_64();
382 #endif /* defined(_INT64_TYPE) */
383 extern uint8_t atomic_swap_8();
384 extern uchar_t atomic_swap_uchar();
385 extern uint16_t atomic_swap_16();
386 extern ushort_t atomic_swap_ushort();
387 extern uint32_t atomic_swap_32();
388 extern uint_t atomic_swap_uint();
389 extern void *atomic_swap_ptr();

```

```
390 extern ulong_t atomic_swap_ulong();
391 #if defined(_INT64_TYPE)
392 extern uint64_t atomic_swap_64();
393 #endif /* defined(_INT64_TYPE) */

396 extern int atomic_set_long_excl();
397 extern int atomic_clear_long_excl();

399 extern void membar_enter();
400 extern void membar_exit();
401 extern void membar_producer();
402 extern void membar_consumer();

404 #endif

267 #if defined(_KERNEL)

269 #if defined(_LP64) || defined(_ILP32)
270 #define atomic_add_ip      atomic_add_long
271 #define atomic_add_ip_nv   atomic_add_long_nv
272 #define casip              atomic_cas_ulong
273 #endif

275 #if defined(__sparc)
276 extern uint8_t ldstub(uint8_t *);
277 #endif

279 /*
280  * Legacy kernel interfaces; they will go away (eventually).
281  */
282 extern uint8_t cas8(uint8_t *, uint8_t, uint8_t);
283 extern uint32_t cas32(uint32_t *, uint32_t, uint32_t);
284 extern uint64_t cas64(uint64_t *, uint64_t, uint64_t);
285 extern ulong_t caslong(ulong_t *, ulong_t, ulong_t);
286 extern void *casptr(void *, void *, void *);
287 extern void atomic_and_long(ulong_t *, ulong_t);
288 extern void atomic_or_long(ulong_t *, ulong_t);
289 #if defined(__sparc)
290 extern uint32_t swapl(uint32_t *, uint32_t);
291 #endif

293 #endif /* _KERNEL */

295 #ifdef __cplusplus
296 }
    unchanged_portion_omitted

```

new/usr/src/uts/common/sys/auxv.h

1

\*\*\*\*\*

6214 Sat Aug 2 23:27:19 2014

new/usr/src/uts/common/sys/auxv.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
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21 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
22 /*      All Rights Reserved      */
```

```
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26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */
31 /*
32 * Copyright (c) 2012, Joyent, Inc. All rights reserved.
33 */
```

```
35 #ifndef _SYS_AUXV_H
36 #define _SYS_AUXV_H
```

```
38 #include <sys/types.h>
```

```
40 #ifdef __cplusplus
41 extern "C" {
42 #endif
```

```
44 #if !defined(_ASM)
45 typedef struct
46 {
47     int    a_type;
48     union {
49         long   a_val;
48 #ifdef __STDC__
50         void   *a_ptr;
50 #else
51         char   *a_ptr;
52 #endif
51         void   (*a_fcn)();
52     } a_un;
53 } auxv_t;
```

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_



new/usr/src/uts/common/sys/avintr.h

1

```
*****
3268 Sat Aug 2 23:27:19 2014
new/usr/src/uts/common/sys/avintr.h
remove support for non-ANSI compilation
*****
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23  * Copyright (c) 1992, 2010, Oracle and/or its affiliates. All rights reserved.
24  */

26 #ifndef _SYS_AVINTR_H
27 #define _SYS_AVINTR_H

30 #include <sys/mutex.h>
31 #include <sys/dditypes.h>
32 #include <sys/ddi_intr.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 /*
39  * Period of autovector structures (add this in to get the next level).
40  */
41 #define MAXIPL 16
42 #define INT_IPL(x) (x)
43 #define AV_INT_SPURIOUS -1

44 #ifdef __STDC__
45 typedef uint_t (*avfunc)(caddr_t, caddr_t);
46 #else
47 typedef uint_t (*avfunc)();
48 #endif /* __STDC__ */

49 struct autovec {
50     /*
51      * Interrupt handler and argument to pass to it.
52      */
53     struct autovec *av_link;      /* pointer to next on in chain */
54     uint_t (*av_vector)();
55     caddr_t av_intarg1;
56     caddr_t av_intarg2;
57     uint64_t *av_ticksp;
```

new/usr/src/uts/common/sys/avintr.h

2

```
58     uint_t av_prilevel;          /* priority level */

60     /*
61      * Interrupt handle/id (like intrspec structure pointer) used to
62      * identify a specific instance of interrupt handler in case we
63      * have to remove the interrupt handler later.
64      */
65     void *av_intr_id;
66     dev_info_t *av_dip;
67     ushort_t av_flags;          /* pending flags */
68     struct autovec *av_ipl_link; /* pointer to next on ipl chain */
69 };
70 unchanged_portion_omitted
```

```

*****
4806 Sat Aug 2 23:27:19 2014
new/usr/src/uts/common/sys/cladm.h
remove support for non-ANSI compilation
*****
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20 * CDDL HEADER END
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22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
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26  * Use is subject to license terms.
27  */

29 #ifndef _SYS_CLADM_H
30 #define _SYS_CLADM_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 #include <sys/types.h>
37 #include <sys/clconf.h>
38 #include <netinet/in.h>

41 /*
42  * This file defines interfaces which are private to Sun Clustering.
43  * Others should not depend on this in any way as it may change or be
44  * removed completely.
45  */

47 /*
48  * cladm() facilities; see below for definitions pertinent to each of these
49  * facilities.
50  */
51 #define CL_INITIALIZE      0      /* bootstrapping information */
52 #define CL_CONFIG         1      /* configuration information */

55 /*
56  * Command definitions for each of the facilities.
57  * The type of the data pointer and the direction of the data transfer
58  * is listed for each command.
59  */

```

```

61 /*
62  * CL_INITIALIZE facility commands.
63  */
64 #define CL_GET_BOOTFLAG      0      /* Return cluster config/boot status */

66 /*
67  * Definitions for the flag bits returned by CL_GET_BOOTFLAG.
68  */
69 #define CLUSTER_CONFIGURED    0x0001 /* system is configured as a cluster */
70 #define CLUSTER_BOOTED       0x0002 /* system is booted as a cluster */

72 #ifndef _KERNEL
73 #define CLUSTER_INSTALLING    0x0004 /* cluster is being installed */
74 #define CLUSTER_DCS_ENABLED  0x0008 /* cluster device framework enabled */
75 #endif /* _KERNEL */

77 /*
78  * CL_CONFIG facility commands.
79  * The CL_GET_NETADDRS and CL_GET_NUM_NETADDRS are contract private interfaces
80  * per PSARC/2001/579-01.
81  */
82 #define CL_NODEID            0      /* Return nodeid of this node. */
83 #define CL_HIGHEST_NODEID    1      /* Return highest configured nodeid. */
84 #define CL_GDEV_PREFIX       2      /* Return path to global namespace. */
85 #define CL_GET_NETADDRS      3      /* Get array of network addresses */
86                                     /* controlled by Sun Cluster. */
87 #define CL_GET_NUM_NETADDRS  4      /* Get the number of data structure */
88                                     /* entries in the array that will be */
89                                     /* returned using CL_GET_NETADDRS. */

91 /*
92  * The cladm system call can provide an array of cluster controlled
93  * network addresses and associated netmasks. The cladm arguments
94  * must be as follows: the argument fac is specified as CL_CONFIG,
95  * the argument cmd is specified as CL_GET_NETADDRS, and argument arg
96  * is the location of a structure of type cladm_netaddrs_t. The
97  * cladm_num_netaddrs is used as input for the requested number
98  * of array entries, and is used as output for the number of valid array
99  * entries available.
100 *
101 * The caller must allocate sufficient memory for the array of
102 * structures of type cladm_netaddr_entry_t and specify the starting
103 * location as cladm_netaddrs_array. The number of entries included
104 * in the array is determined using cladm with argument fac specified
105 * as CL_CONFIG, argument cmd specified as CL_GET_NUM_NETADDRS, and
106 * argument arg is the location of a structure of type cladm_netaddrs_t.
107 * The determined number of array entries is returned in
108 * cladm_num_netaddrs.
109 *
110 * These commands support the yielding of DR operation control (by the
111 * RCM Framework) to Sun Cluster for cluster controlled adapters.
112 *
113 * These data structures are contract private per PSARC/2001/579-01.
114 */
115 typedef struct {
116     int32_t          cl_ipversion; /* IPV4_VERSION or IPV6_VERSION */
117     union {
118         struct {
119             ipaddr_t      ipv4_netaddr;
120             ipaddr_t      ipv4_netmask;
121         } cl_ipv4;
122         struct {
123             uint32_t      ipv6_netaddr[4];
124             uint32_t      ipv6_netmask[4];
125         } cl_ipv6;
126     };
127 } cl_netaddr_entry_t;

```

```
126         } cl_ipv_un;
127 } cladm_netaddr_entry_t;
_____ unchanged portion omitted
139 #endif /* defined(_SYSCALL32) */

142 #ifdef _KERNEL
143 extern int cladmin(int fac, int cmd, void *data);
144 extern int cluster_bootflags;
145 #else
146 #if defined(__STDC__)
146 extern int _cladm(int fac, int cmd, void *data);
148 #else /* !defined(__STDC__) */
149 extern int _cladm();
150 #endif /* defined(__STDC__) */
147 #endif /* _KERNEL */

149 #ifdef __cplusplus
150 }
_____ unchanged portion omitted
```

new/usr/src/uts/common/sys/ddi.h

1

```
*****
4845 Sat Aug  2 23:27:19 2014
new/usr/src/uts/common/sys/ddi.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
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20 * CDDL HEADER END
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22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved      */

33 #ifndef _SYS_DDI_H
34 #define _SYS_DDI_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.19 */

36 #include <sys/types.h>
37 #include <sys/map.h>
38 #include <sys/buf.h>
39 #include <sys/uio.h>
40 #include <sys/stream.h>

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

46 /*
47  * ddi.h -- the flag and function definitions needed by DDI-conforming
48  * drivers.  This header file contains #undefs to undefine macros that
49  * drivers would otherwise pick up in order that function definitions
50  * may be used.  Programmers should place the include of "sys/ddi.h"
51  * after any header files that define the macros #undef'ed or the code
52  * may compile incorrectly.
53  */

55 /*
56  * define min() and max() as macros so that drivers will not pick up the
57  * min() and max() kernel functions since they do signed comparison only.
58  */
59 #ifdef min
```

new/usr/src/uts/common/sys/ddi.h

2

```
60 #undef min
61 #endif /* min */
62 #define min(a, b)      ((a) < (b) ? (a) : (b))

64 #ifdef max
65 #undef max
66 #endif /* max */
67 #define max(a, b)      ((a) < (b) ? (b) : (a))

69 #define TIME      1
70 #define UPROCP      2
71 #define PPGRP      3
72 #define LBOLT      4
73 #define SYSRINT      5
74 #define SYSXINT      6
75 #define SYSMINT      7
76 #define SYSRAWC      8
77 #define SYSCANC      9
78 #define SYSOUTC      10
79 #define PPID      11
80 #define PSID      12
81 #define UCRED      13

83 #ifdef __STDC__
83 extern int drv_getparm(uint_t, void *);
84 extern int drv_setparm(uint_t, ulong_t);
85 extern void drv_usecwait(clock_t);
86 extern clock_t drv_hztousec(clock_t);
87 extern clock_t drv_usectohz(clock_t);
88 extern void delay(clock_t);
89 extern void time_to_wait(clock_t *, clock_t);

92 #else

94 extern int drv_getparm();
95 extern int drv_setparm();
96 extern void drv_usecwait();
97 extern clock_t drv_hztousec();
98 extern clock_t drv_usectohz();
99 extern void delay();
100 extern time_to_wait();
101 #endif /* __STDC__ */

91 /* XXX -- should be changed to major_t */
92 /* convert external to internal major number */

106 #ifdef __STDC__
94 extern int etoimajor(major_t);
95 /* convert internal to extern major number */
96 extern int itoemajor(major_t, int);

111 #else

113 extern int etoimajor();
114 /* convert internal to extern major number */
115 extern int itoemajor();
116 #endif /* __STDC__ */

118 #if defined(__STDC__)

97 extern int drv_priv(struct cred *);

122 #else

124 extern int drv_priv();
```

```

126 #endif

99 /*
100 * The following declarations take the place of macros in
101 * sysmacros.h The undefs are for any case where a driver includes
102 * sysmacros.h, even though DDI conforming drivers must not.
103 */
104 #undef getemajor
105 #undef geteminor
106 #undef getmajor
107 #undef getminor
108 #undef makedevice
109 #undef cmpdev
110 #undef expdev

142 #ifdef __STDC__
113 extern major_t getemajor(dev_t);
114 extern minor_t geteminor(dev_t);
115 extern major_t getmajor(dev_t);
116 extern minor_t getminor(dev_t);
117 extern dev_t makedevice(major_t, minor_t);
118 extern o_dev_t cmpdev(dev_t);
119 extern dev_t expdev(dev_t);
120 #else
121 extern major_t getemajor();
122 extern minor_t geteminor();
123 extern major_t getmajor();
124 extern minor_t getminor();
125 extern dev_t makedevice();
126 extern o_dev_t cmpdev();
127 extern dev_t expdev();
128 #endif /* __STDC__ */

121 /*
122 * The following macros from param.h are also being converted to
123 * functions and #undefs must be done here as well since param.h
124 * will be included by most if not every driver
125 */

127 #undef btop
128 #undef btopr
129 #undef ptob

171 #ifdef __STDC__
131 extern unsigned long btop(unsigned long);
132 extern unsigned long btopr(unsigned long);
133 extern unsigned long ptob(unsigned long);
175 #else
176 extern unsigned long btop();
177 extern unsigned long btopr();
178 extern unsigned long ptob();
179 #endif /* __STDC__ */

136 /* STREAMS drivers and modules must include stream.h to pick up the */
137 /* needed structure and flag definitions. As was the case with map.h, */
138 /* macros used by both the kernel and drivers in times past now have */
139 /* a macro definition for the kernel and a function definition for */
140 /* drivers. The following #undefs allow drivers to include stream.h */
141 /* but call the functions rather than macros. */

143 #undef OTHERQ
144 #undef RD
145 #undef WR

```

```

146 #undef SAMESTR
147 #undef datamsg

196 #ifdef __STDC__
149 extern struct queue *OTHERQ(queue_t *); /* stream.h */
150 extern struct queue *RD(queue_t *);
151 extern struct queue *WR(queue_t *);
152 extern int SAMESTR(queue_t *);
153 extern int datamsg(unsigned char);

203 #else
205 extern struct queue *OTHERQ(); /* stream.h */
206 extern struct queue *RD();
207 extern struct queue *WR();
208 extern int SAMESTR();
209 extern int datamsg();
210 #endif /* __STDC__ */

155 /* declarations of functions for allocating and deallocating the space */
156 /* for a buffer header (just a header, not the associated buffer) */

215 #ifdef __STDC__
158 extern struct buf *getrbuf(int);
159 extern void freerbuf(struct buf *);
218 #else
219 extern struct buf *getrbuf();
220 extern void freerbuf();
221 #endif /* __STDC__ */

161 #ifdef _KERNEL
162 /*
163 * SVR4MP replacement for hat_getkpfnum()
164 */
165 #define NOPAGE (-1) /* value returned for invalid addresses */

167 typedef pfn_t ppid_t; /* a 'physical page identifier' - no math allowed! */

231 #ifdef __STDC__
169 extern ppid_t kvtoppid(caddr_t);
233 #else /* __STDC__ */
234 extern ppid_t kvtoppid();
235 #endif /* __STDC__ */

171 extern int qassociate(queue_t *, int);

173 #endif /* _KERNEL */

175 #ifdef __cplusplus
176 }

```

unchanged\_portion\_omitted

new/usr/src/uts/common/sys/ddidmareq.h

1

```
*****
25410 Sat Aug  2 23:27:19 2014
new/usr/src/uts/common/sys/ddidmareq.h
remove support for non-ANSI compilation
*****
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19 * CDDL HEADER END
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23 *
24 * Copyright (c) 1990, 2010, Oracle and/or its affiliates. All rights reserved.
25 */
26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 */

27 #ifndef _SYS_DDIDMAREQ_H
28 #define _SYS_DDIDMAREQ_H

30 #ifdef __cplusplus
31 extern "C" {
32 #endif

34 /*
35  * Memory Objects
36  *
37  * Definitions of structures that can describe
38  * an object that can be mapped for DMA.
39  */

41 /*
42  * Structure describing a virtual address
43  */
44 struct v_address {
45     caddr_t      v_addr;      /* base virtual address */
46     struct as    *v_as;      /* pointer to address space */
47     void         *v_priv;    /* priv data for shadow I/O */
48 };
unchanged_portion_omitted

504 /*
505  * Defines for the DMA mapping allocation functions
506  *
507  * If a DMA callback function is set to anything other than the following
508  * defines then it is assumed that one wishes a callback and is providing
509  * a function address.
510  */
512 #ifndef __STDC__
```

new/usr/src/uts/common/sys/ddidmareq.h

2

```
511 #define DDI_DMA_DONTWAIT      ((int (*)(caddr_t))0)
512 #define DDI_DMA_SLEEP        ((int (*)(caddr_t))1)
515 #else
516 #define DDI_DMA_DONTWAIT      ((int (*)( ))0)
517 #define DDI_DMA_SLEEP        ((int (*)( ))1)
518 #endif

514 /*
515  * Return values from callback functions.
516  */
517 #define DDI_DMA_CALLBACK_RUNOUT 0
518 #define DDI_DMA_CALLBACK_DONE   1

520 /*
521  * Flag definitions for the allocation functions.
522  */
523 #define DDI_DMA_WRITE          0x0001 /* Direction memory --> IO */
524 #define DDI_DMA_READ           0x0002 /* Direction IO --> memory */
525 #define DDI_DMA_RDWR           (DDI_DMA_READ | DDI_DMA_WRITE)

527 /*
528  * If possible, establish a MMU redzone after the mapping (to protect
529  * against cheap DMA hardware that might get out of control).
530  */
531 #define DDI_DMA_REDZONE        0x0004

533 /*
534  * A partial allocation is allowed. That is, if the size of the object
535  * exceeds the mapping resources available, only map a portion of the
536  * object and return status indicating that this took place. The caller
537  * can use the functions ddi_dma_numwin(9F) and ddi_dma_getwin(9F) to
538  * change, at a later point, the actual mapped portion of the object.
539  *
540  * The mapped portion begins at offset 0 of the object.
541  */
542 /*
543 #define DDI_DMA_PARTIAL          0x0008

545 /*
546  * Map the object for byte consistent access. Note that explicit
547  * synchronization (via ddi_dma_sync(9F)) will still be required.
548  * Consider this flag to be a hint to the mapping routines as to
549  * the intended use of the mapping.
550  *
551  * Normal data transfers can be usually consider to use 'streaming'
552  * modes of operations. They start at a specific point, transfer a
553  * fairly large amount of data sequentially, and then stop (usually
554  * on a well aligned boundary).
555  *
556  * Control mode data transfers (for memory resident device control blocks,
557  * e.g., ethernet message descriptors) do not access memory in such
558  * a streaming sequential fashion. Instead, they tend to modify a few
559  * words or bytes, move around and maybe modify a few more.
560  *
561  * There are many machine implementations that make this difficult to
562  * control in a generic and seamless fashion. Therefore, explicit synch-
563  * ronization steps (via ddi_dma_sync(9F)) are still required (even if you
564  * ask for a byte-consistent mapping) in order to make the view of the
565  * memory object shared between a CPU and a DMA master in consistent.
566  * However, judicious use of this flag can give sufficient hints to
567  * the mapping routines to attempt to pick the most efficacious mapping
568  * such that the synchronization steps are as efficient as possible.
569  */
570 /*
571 #define DDI_DMA_CONSISTENT      0x0010
```

```

573 /*
574 * Some DMA mappings have to be 'exclusive' access.
575 */
576 #define DDI_DMA_EXCLUSIVE      0x0020

578 /*
579 * Sequential, unidirectional, block-sized and block aligned transfers
580 */
581 #define DDI_DMA_STREAMING      0x0040

583 /*
584 * Support for 64-bit SBus devices
585 */
586 #define DDI_DMA_SBUS_64BIT     0x2000

588 /*
589 * Return values from the mapping allocation functions.
590 */

592 /*
593 * succeeded in satisfying request
594 */
595 #define DDI_DMA_MAPPED        0

597 /*
598 * Mapping is legitimate (for advisory calls).
599 */
600 #define DDI_DMA_MAPOK         0

602 /*
603 * Succeeded in mapping a portion of the request.
604 */
605 #define DDI_DMA_PARTIAL_MAP   1

607 /*
608 * indicates end of window/segment list
609 */
610 #define DDI_DMA_DONE          2

612 /*
613 * No resources to map request.
614 */
615 #define DDI_DMA_NORESOURCES   -1

617 /*
618 * Can't establish a mapping to the specified object
619 * (no specific reason).
620 */
621 #define DDI_DMA_NOMAPPING     -2

623 /*
624 * The request is too big to be mapped.
625 */
626 #define DDI_DMA_TOOBIG       -3

628 /*
629 * The request is too small to be mapped.
630 */
631 #define DDI_DMA_TOOSMALL     -4

633 /*
634 * The request cannot be mapped because the object
635 * is locked against mapping by another DMA master.
636 */
637 #define DDI_DMA_LOCKED       -5

```

```

639 /*
640 * The request cannot be mapped because the limits
641 * structure has bogus values.
642 */
643 #define DDI_DMA_BADLIMITS    -6

645 /*
646 * the segment/window pointer is stale
647 */
648 #define DDI_DMA_STALE        -7

650 /*
651 * The system can't allocate DMA resources using
652 * the given DMA attributes
653 */
654 #define DDI_DMA_BADATTR     -8

656 /*
657 * A DMA handle is already used for a DMA
658 */
659 #define DDI_DMA_INUSE       -9

662 /*
663 * DVMA disabled or not supported. use physical DMA
664 */
665 #define DDI_DMA_USE_PHYSICAL -10

668 /*
669 * In order for the access to a memory object to be consistent
670 * between a device and a CPU, the function ddi_dma_sync(9F)
671 * must be called upon the DMA handle. The following flags
672 * define whose view of the object should be made consistent.
673 * There are different flags here because on different machines
674 * there are definite performance implications of how long
675 * such synchronization takes.
676 *
677 * DDI_DMA_SYNC_FORDEV makes all device references to the object
678 * mapped by the DMA handle up to date. It should be used by a
679 * driver after a cpu modifies the memory object (over the range
680 * specified by the other arguments to the ddi_dma_sync(9F) call).
681 *
682 * DDI_DMA_SYNC_FORCPU makes all cpu references to the object
683 * mapped by the DMA handle up to date. It should be used
684 * by a driver after the receipt of data from the device to
685 * the memory object is done (over the range specified by
686 * the other arguments to the ddi_dma_sync(9F) call).
687 *
688 * If the only mapping that concerns the driver is one for the
689 * kernel (such as memory allocated by ddi_iopb_alloc(9F)), the
690 * flag DDI_DMA_SYNC_FORKERNEL can be used. This is a hint to the
691 * system that if it can synchronize the kernel's view faster
692 * than the CPU's view, it can do so, otherwise it acts the
693 * same as DDI_DMA_SYNC_FORCPU. DDI_DMA_SYNC_FORKERNEL might
694 * speed up the synchronization of kernel mappings in case of
695 * non IO-coherent CPU caches.
696 */
697 #define DDI_DMA_SYNC_FORDEV   0x0
698 #define DDI_DMA_SYNC_FORCPU  0x1
699 #define DDI_DMA_SYNC_FORKERNEL 0x2

701 /*
702 * Bus nexus control functions for DMA
703 */

```

```

705 /*
706  * Control operations, defined here so that devops.h can be included
707  * by drivers without having to include a specific SYSDDI implementation
708  * header file.
709  */

711 enum ddi_dma_ctlops {
712     DDI_DMA_FREE,           /* obsolete - do not use */
713     DDI_DMA_SYNC,          /* obsolete - do not use */
714     DDI_DMA_HTOC,          /* obsolete - do not use */
715     DDI_DMA_KVADDR,        /* obsolete - do not use */
716     DDI_DMA_MOVWIN,        /* obsolete - do not use */
717     DDI_DMA_REPWIN,        /* obsolete - do not use */
718     DDI_DMA_GETERR,        /* obsolete - do not use */
719     DDI_DMA_COFF,          /* obsolete - do not use */
720     DDI_DMA_NEXTWIN,       /* obsolete - do not use */
721     DDI_DMA_NEXTSEG,       /* obsolete - do not use */
722     DDI_DMA_SEGTOC,        /* obsolete - do not use */
723     DDI_DMA_RESERVE,        /* reserve some DVMA range */
724     DDI_DMA_RELEASE,        /* free preallocated DVMA range */
725     DDI_DMA_RESETH,        /* obsolete - do not use */
726     DDI_DMA_CKSYNC,        /* obsolete - do not use */
727     DDI_DMA_IOPB_ALLOC,    /* obsolete - do not use */
728     DDI_DMA_IOPB_FREE,     /* obsolete - do not use */
729     DDI_DMA_SMEM_ALLOC,    /* obsolete - do not use */
730     DDI_DMA_SMEM_FREE,     /* obsolete - do not use */
731     DDI_DMA_SET_SBUS64,    /* 64 bit SBus support */
732     DDI_DMA_REMAP,         /* remap DVMA buffers after relocation */

734     /*
735      * control ops for DMA engine on motherboard
736      */
737     DDI_DMA_E_ACQUIRE,     /* get channel for exclusive use */
738     DDI_DMA_E_FREE,         /* release channel */
739     DDI_DMA_E_1STPTY,       /* setup channel for 1st party DMA */
740     DDI_DMA_E_GETTCB,       /* get control block for DMA engine */
741     DDI_DMA_E_FREECB,       /* free control blk for DMA engine */
742     DDI_DMA_E_PROG,         /* program channel of DMA engine */
743     DDI_DMA_E_SWSETUP,      /* setup channel for software control */
744     DDI_DMA_E_SWSTART,      /* software operation of DMA channel */
745     DDI_DMA_E_ENABLE,       /* enable channel of DMA engine */
746     DDI_DMA_E_STOP,         /* stop a channel of DMA engine */
747     DDI_DMA_E_DISABLE,      /* disable channel of DMA engine */
748     DDI_DMA_E_GETCNT,       /* get remaining xfer count */
749     DDI_DMA_E_GETLIM,       /* obsolete - do not use */
750     DDI_DMA_E_GETATTR,      /* get DMA engine attributes */
751 };

```

unchanged portion omitted



```

*****
4190 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/debug.h
remove support for non-ANSI compilation
*****
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30 */

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35 #ifndef _SYS_DEBUG_H
36 #define _SYS_DEBUG_H

38 #include <sys/isa_defs.h>
39 #include <sys/types.h>
40 #include <sys/note.h>

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

46 /*
47  * ASSERT(ex) causes a panic or debugger entry if expression ex is not
48  * true. ASSERT() is included only for debugging, and is a no-op in
49  * production kernels. VERIFY(ex), on the other hand, behaves like
50  * ASSERT and is evaluated on both debug and non-debug kernels.
51  */

51 #if defined(__STDC__)
53 extern int assfail(const char *, const char *, int);
54 #define VERIFY(EX) ((void)((EX) || assfail(#EX, __FILE__, __LINE__)))
55 #if DEBUG
56 #define ASSERT(EX) ((void)((EX) || assfail(#EX, __FILE__, __LINE__)))
57 #else
58 #define ASSERT(x) ((void)0)
59 #endif
59 #else /* defined(__STDC__) */

```

```

60 extern int assfail();
61 #define VERIFY(EX) ((void)((EX) || assfail("EX", __FILE__, __LINE__)))
62 #if DEBUG
63 #define ASSERT(EX) ((void)((EX) || assfail("EX", __FILE__, __LINE__)))
64 #else
65 #define ASSERT(x) ((void)0)
66 #endif
67 #endif /* defined(__STDC__) */

61 /*
62  * Assertion variants sensitive to the compilation data model
63  */
64 #if defined(_LP64)
65 #define ASSERT64(x)      ASSERT(x)
66 #define ASSERT32(x)
67 #else
68 #define ASSERT64(x)
69 #define ASSERT32(x)      ASSERT(x)
70 #endif

72 /*
73  * IMPLY and EQUIV are assertions of the form:
74  *
75  *     if (a) then (b)
76  * and
77  *     if (a) then (b) *AND* if (b) then (a)
78  */
79 #if DEBUG
80 #define IMPLY(A, B) \
81     ((void)((!(A) || (B)) || \
82     assfail("#A ") implies (" #B "), __FILE__, __LINE__)))
83 #define EQUIV(A, B) \
84     ((void)((!(A) == !(B)) || \
85     assfail("#A ") is equivalent to (" #B "), __FILE__, __LINE__)))
86 #else
87 #define IMPLY(A, B) ((void)0)
88 #define EQUIV(A, B) ((void)0)
89 #endif

91 /*
92  * ASSERT3() behaves like ASSERT() except that it is an explicit conditional,
93  * and prints out the values of the left and right hand expressions as part of
94  * the panic message to ease debugging. The three variants imply the type
95  * of their arguments. ASSERT3S() is for signed data types, ASSERT3U() is
96  * for unsigned, and ASSERT3P() is for pointers. The VERIFY3*() macros
97  * have the same relationship as above.
98  */
99 extern void assfail3(const char *, uintmax_t, const char *, uintmax_t,
100     const char *, int);
101 #define VERIFY3_IMPL(LEFT, OP, RIGHT, TYPE) do { \
102     const TYPE __left = (TYPE)(LEFT); \
103     const TYPE __right = (TYPE)(RIGHT); \
104     if (!(__left OP __right)) \
105         assfail3(#LEFT " " #OP " " #RIGHT, \
106             (uintmax_t)__left, #OP, (uintmax_t)__right, \
107             __FILE__, __LINE__); \
108     _NOTE(CONSTCOND) } while (0)

110 #define VERIFY3S(x, y, z)      VERIFY3_IMPL(x, y, z, int64_t)
111 #define VERIFY3U(x, y, z)      VERIFY3_IMPL(x, y, z, uint64_t)
112 #define VERIFY3P(x, y, z)      VERIFY3_IMPL(x, y, z, uintptr_t)
113 #define VERIFY3(x, y, z)      VERIFY3_IMPL(x, y, z, int64_t)

115 #if DEBUG
116 #define ASSERT3S(x, y, z)      VERIFY3_IMPL(x, y, z, int64_t)
117 #define ASSERT3U(x, y, z)      VERIFY3_IMPL(x, y, z, uint64_t)

```

```
118 #define ASSERT3P(x, y, z)      VERIFY3_IMPL(x, y, z, uintptr_t)
119 #define ASSERT0(x)             VERIFY3_IMPL(x, ==, 0, uintmax_t)
120 #else
121 #define ASSERT3S(x, y, z)      ((void)0)
122 #define ASSERT3U(x, y, z)      ((void)0)
123 #define ASSERT3P(x, y, z)      ((void)0)
124 #define ASSERT0(x)             ((void)0)
125 #endif

127 #ifdef _KERNEL

129 extern void abort_sequence_enter(char *);
130 extern void debug_enter(char *);

132 #endif /* _KERNEL */

134 #if defined(DEBUG) && !defined(__sun)
135 /* CSTYLELED */
136 #define STATIC
137 #else
138 /* CSTYLELED */
139 #define STATIC static
140 #endif

142 #ifdef __cplusplus
143 }
_____unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/dirent.h

1

```
*****
3788 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/dirent.h
remove support for non-ANSI compilation
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28  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
29  * Use is subject to license terms.
30  */

32 #ifndef _SYS_DIRENT_H
33 #define _SYS_DIRENT_H

35 #include <sys/feature_tests.h>

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 /*
42  * File-system independent directory entry.
43  */
44 typedef struct dirent {
45     ino_t      d_ino;          /* "inode number" of entry */
46     off_t      d_off;         /* offset of disk directory entry */
47     unsigned short d_reclen; /* length of this record */
48     char       d_name[1];    /* name of file */
49 } dirent_t;
    unchanged portion omitted

76 #endif /* _LARGEFILE64_SOURCE */

78 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
79 #if defined(_KERNEL)
80 #define DIRENT64_RECLEN(namelen) \
81     ((offsetof(dirent64_t, d_name[0]) + 1 + (namelen) + 7) & ~ 7)
82 #define DIRENT64_NAMELEN(reclen) \
83     ((reclen) - (offsetof(dirent64_t, d_name[0])))
84 #define DIRENT32_RECLEN(namelen) \
85     ((offsetof(dirent32_t, d_name[0]) + 1 + (namelen) + 3) & ~ 3)

```

new/usr/src/uts/common/sys/dirent.h

2

```
86 #define DIRENT32_NAMELEN(reclen) \
87     ((reclen) - (offsetof(dirent32_t, d_name[0])))
88 #endif

90 /*
91  * This is the maximum number of bytes that getdents(2) will store in
92  * user-supplied dirent buffers.
93  */
94 #define MAXGETDENTS_SIZE      (64 * 1024)

96 #if !defined(_KERNEL)

98 /*
99  * large file compilation environment setup
100  *
101  * In the LP64 compilation environment, map large file interfaces
102  * back to native versions where possible. (This only works because
103  * a 'struct dirent' == 'struct dirent64').
104  */

106 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
107 #ifdef __PRAGMA_REDEFINE_EXTNAME
108 #pragma redefine_extname      getdents      getdents64
109 #else
110 #define getdents              getdents64
111 #endif
112 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

114 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
115 #ifdef __PRAGMA_REDEFINE_EXTNAME
116 #pragma redefine_extname      getdents64    getdents
117 #else
118 #define getdents64            getdents
119 #define dirent64              dirent
120 #define dirent64_t            dirent_t
121 #endif
122 #endif /* _LP64 && _LARGEFILE64_SOURCE */

122 #if defined(__STDC__)
124 extern int getdents(int, struct dirent *, size_t);
124 #else
125 extern int getdents();
126 #endif

126 /* N.B.: transitional large file interface version deliberately not provided */

128 #endif /* !defined(_KERNEL) */
129 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

131 #ifdef __cplusplus
132 }
    unchanged portion omitted

```

new/usr/src/uts/common/sys/dktp/cm.h

1

```
*****
1617 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/dktp/cm.h
remove support for non-ANSI compilation
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26 */

28 #ifndef _SYS_DKTP_CM_H
29 #define _SYS_DKTP_CM_H

29 #pragma ident "%Z%M% %I% %E% SMI"

31 #include <sys/types.h>
32 #ifdef _KERNEL
33 #include <sys/conf.h>
34 #include <sys/stat.h>
35 #include <sys/errno.h>
36 #include <sys/kmem.h>
37 #include <sys/fcntl.h>
38 #include <sys/open.h>
39 #include <sys/sysmacros.h>
40 #include <sys/ddi.h>
41 #include <sys/sunddi.h>
42 #endif /* _KERNEL */

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

48 #ifdef _KERNEL

50 #ifndef _SYS_SCSI_SCSI_H
51 #ifdef __STDC__
51 typedef void * opaque_t;
53 #else /* __STDC__ */
54 typedef char * opaque_t;
55 #endif /* __STDC__ */
52 #endif

54 #define PRF prom_printf
```

new/usr/src/uts/common/sys/dktp/cm.h

2

```
56 #define SET_BP_SEC(bp, X) ((bp)->b_private = (void *) (X))
57 #define GET_BP_SEC(bp) ((daddr_t)(bp)->b_private)

59 #endif /* _KERNEL */

61 #ifdef __cplusplus
62 }
unchanged_portion_omitted
```

new/usr/src/uts/common/sys/dl.h

1

```
*****
1635 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/dl.h
remove support for non-ANSI compilation
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32 #ifndef _SYS_DL_H
33 #define _SYS_DL_H

33 #pragma ident      "%Z%M% %I%      %E% SMI"

35 #include <sys/isa_defs.h>

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 typedef struct dl {
42 #ifdef _LONG_LONG_LTOH
43     uint_t  dl_lop;
44     int     dl_hop;
45 #else
46     int     dl_hop;
47     uint_t  dl_lop;
48 #endif
49 } dl_t;

51 #ifdef __STDC__
51 extern dl_t  ladd(dl_t, dl_t);
52 extern dl_t  lsub(dl_t, dl_t);
53 extern dl_t  lmul(dl_t, dl_t);
54 extern dl_t  ldivide(dl_t, dl_t);
55 extern dl_t  lshiftl(dl_t, int);
56 extern dl_t  llog10(dl_t);
57 extern dl_t  lexp10(dl_t);
59 #else
```

new/usr/src/uts/common/sys/dl.h

2

```
60 extern dl_t  ladd();
61 extern dl_t  lsub();
62 extern dl_t  lmul();
63 extern dl_t  ldivide();
64 extern dl_t  lshiftl();
65 extern dl_t  llog10();
66 extern dl_t  lexp10();
67 #endif /* __STDC__ */

59 extern dl_t  lzero;
60 extern dl_t  lone;
61 extern dl_t  lten;

63 #ifdef __cplusplus
64 }
_____unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/ethernet.h

1

```
*****
4998 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/ethernet.h
remove support for non-ANSI compilation
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19 * CDDL HEADER END
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21 /*
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23 *
24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*
29 * ethernet.h header for common Ethernet declarations.
30 */

32 #ifndef _SYS_ETHERNET_H
33 #define _SYS_ETHERNET_H

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 #define ETHERADDRL (6) /* ethernet address length in octets */
40 #define ETHERFCSL (4) /* ethernet FCS length in octets */

42 /*
43 * Ethernet address - 6 octets
44 */
45 typedef uchar_t ether_addr_t[ETHERADDRL];

47 /*
48 * Ethernet address - 6 octets
49 */
50 struct ether_addr {
51     ether_addr_t ether_addr_octet;
52 };
    unchanged portion omitted

82 #define ETHERTYPE_PUP (0x0200) /* PUP protocol */
83 #define ETHERTYPE_802_MIN (0x0600) /* Min valid ethernet type */
84 /* under IEEE 802.3 rules */
85 #define ETHERTYPE_IP (0x0800) /* IP protocol */
86 #define ETHERTYPE_ARP (0x0806) /* Addr. resolution protocol */
87 #define ETHERTYPE_REVARP (0x8035) /* Reverse ARP */
88 #define ETHERTYPE_AT (0x809b) /* AppleTalk protocol */
```

new/usr/src/uts/common/sys/ethernet.h

2

```
89 #define ETHERTYPE_AARP (0x80f3) /* AppleTalk ARP */
90 #define ETHERTYPE_VLAN (0x8100) /* 802.1Q VLAN */
91 #define ETHERTYPE_IPV6 (0x86dd) /* IPv6 */
92 #define ETHERTYPE_SLOW (0x8809) /* Slow Protocol */
93 #define ETHERTYPE_PPPOED (0x8863) /* PPPoE Discovery Stage */
94 #define ETHERTYPE_PPPOES (0x8864) /* PPPoE Session Stage */
95 #define ETHERTYPE_EAPOL (0x888e) /* EAPOL protocol */
96 #define ETHERTYPE_RSN_PREAUTH (0x88c7) /* RSN PRE-Authentication */
97 #define ETHERTYPE_TRILL (0x88c8) /* TBD. TRILL frame */
98 #define ETHERTYPE_FCOE (0x8906) /* FCoE */
99 #define ETHERTYPE_MAX (0xffff) /* Max valid ethernet type */

101 /*
102 * The ETHERTYPE_NTRAILER packet types starting at ETHERTYPE_TRAIL have
103 * (type-ETHERTYPE_TRAIL)*512 bytes of data followed
104 * by an ETHER type (as given above) and then the (variable-length) header.
105 */
106 #define ETHERTYPE_TRAIL (0x1000) /* Trailer packet */
107 #define ETHERTYPE_NTRAILER (16)

109 #define ETHERMTU (1500) /* max frame w/o header or fcs */
110 #define ETHERMIN (60) /* min frame w/header w/o fcs */
111 #define ETHERMAX (1514) /* max frame w/header w/o fcs */

113 /*
114 * Compare two Ethernet addresses - assumes that the two given
115 * pointers can be referenced as shorts. On architectures
116 * where this is not the case, use bcmp instead. Note that like
117 * bcmp, we return zero if they are the SAME.
118 */

120 #if defined(__sparc) || defined(__i386) || defined(__amd64)
121 #define ether_cmp(a, b) (((short *)b)[2] != ((short *)a)[2] || \
122 ((short *)b)[1] != ((short *)a)[1] || \
123 ((short *)b)[0] != ((short *)a)[0])
124 #else
125 #define ether_cmp(a, b) (bcmp((caddr_t)a, (caddr_t)b, 6))
126 #endif

128 /*
129 * Copy Ethernet addresses from a to b - assumes that the two given
130 * pointers can be referenced as shorts. On architectures
131 * where this is not the case, use bcopy instead.
132 */

134 #if defined(__sparc) || defined(__i386) || defined(__amd64)
135 #define ether_copy(a, b) { ((short *)b)[0] = ((short *)a)[0]; \
136 ((short *)b)[1] = ((short *)a)[1]; ((short *)b)[2] = ((short *)a)[2]; }
137 #else
138 #define ether_copy(a, b) (bcopy((caddr_t)a, (caddr_t)b, 6))
139 #endif

141 #ifdef _KERNEL
142 extern int localetheraddr(struct ether_addr *, struct ether_addr *);
143 extern char *ether_sprintf(struct ether_addr *);
144 extern int ether_aton(char *, uchar_t *);
145 #else /* _KERNEL */
144 #ifdef __STDC__
146 extern char *ether_ntoa(const struct ether_addr *);
147 extern struct ether_addr *ether_aton(const char *);
148 extern int ether_ntohost(char *, const struct ether_addr *);
149 extern int ether_hostton(const char *, struct ether_addr *);
150 extern int ether_line(const char *, struct ether_addr *, char *);
151 #else /* __STDC__ */
151 extern char *ether_ntoa();
152 extern struct ether_addr *ether_aton();
```

```
153 extern int ether_ntohost();
154 extern int ether_hostton();
155 extern int ether_line();
156 #endif /* __STDC__ */
151 #endif /* _KERNEL */

153 #ifdef __cplusplus
154 }
_____unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/fbuf.h

1

```
*****
2074 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/fbuf.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright (c) 1997-1998 by Sun Microsystems, Inc.
26 * All rights reserved.
27 */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved      */

33 #ifndef _SYS_FBUF_H
34 #define _SYS_FBUF_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.3      */

36 #include <sys/vnode.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /*
43  * A struct fbuf is used to get a mapping to part of a file using the
44  * segkmap facilities. After you get a mapping, you can fbrelse() it
45  * (giving a seg code to pass back to segmap_release), you can fbwrite()
46  * it (causes a synchronous write back using the file mapping information),
47  * or you can fbwrite it (causing indirect synchronous write back to
48  * the block number given without using the file mapping information).
49  */

51 struct fbuf {
52     caddr_t fb_addr;
53     uint_t fb_count;
54 };

56 #if defined(__STDC__)
56 extern int fbread(struct vnode *, offset_t, uint_t, enum seg_rw,
57     struct fbuf **);
58 extern void fbzero(struct vnode *, offset_t, uint_t, struct fbuf **);
```

new/usr/src/uts/common/sys/fbuf.h

2

```
59 extern int fbwrite(struct fbuf *);
60 extern int fbdwrite(struct fbuf *);
61 extern int fbwrite(struct fbuf *, struct vnode *, daddr_t bn, int bsize);
62 extern void fbrelse(struct fbuf *, enum seg_rw);
64 #endif

64 #ifdef __cplusplus
65 }
_____unchanged_portion_omitted_____
```



```

*****
15947 Sat Aug 2 23:27:20 2014
new/usr/src/uts/common/sys/feature_tests.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23  * Copyright 2013 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2006 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */
26 /*
27  * Copyright 2013 Garrett D'Amore <garrett@damore.org>
28  */
29 #ifndef _SYS_FEATURE_TESTS_H
30 #define _SYS_FEATURE_TESTS_H
31
32 #include <sys/ccompile.h>
33 #include <sys/isa_defs.h>
34
35 #ifdef __cplusplus
36 extern "C" {
37 #endif
38
39 /*
40  * Values of _POSIX_C_SOURCE
41  *
42  *      undefined    not a POSIX compilation
43  *      1             POSIX.1-1990 compilation
44  *      2             POSIX.2-1992 compilation
45  *      199309L      POSIX.1b-1993 compilation (Real Time)
46  *      199506L      POSIX.1c-1995 compilation (POSIX Threads)
47  *      200112L      POSIX.1-2001 compilation (Austin Group Revision)
48  *      200809L      POSIX.1-2008 compilation
49  */
50 #if defined(_POSIX_SOURCE) && !defined(_POSIX_C_SOURCE)
51 #define _POSIX_C_SOURCE 1
52 #endif
53
54 /*
55  * The feature test macros __XOPEN_OR_POSIX, _STRICT_STDC, _STRICT_SYMBOLS,
56  * and _STDC_C99 are Sun implementation specific macros created in order to
57  * compress common standards specified feature test macros for easier reading.
58  * These macros should not be used by the application developer as

```

```

59  * unexpected results may occur. Instead, the user should reference
60  * standards(5) for correct usage of the standards feature test macros.
61  *
62  * __XOPEN_OR_POSIX      Used in cases where a symbol is defined by both
63  *                        X/Open or POSIX or in the negative, when neither
64  *                        X/Open or POSIX defines a symbol.
65  *
66  * _STRICT_STDC          __STDC__ is specified by the C Standards and defined
67  *                        by the compiler. For Sun compilers the value of
68  *                        __STDC__ is either 1, 0, or not defined based on the
69  *                        compilation mode (see cc(1)). When the value of
70  *                        __STDC__ is 1 and in the absence of any other feature
71  *                        test macros, the namespace available to the application
72  *                        is limited to only those symbols defined by the C
73  *                        Standard. _STRICT_STDC provides a more readable means
74  *                        of identifying symbols defined by the standard, or in
75  *                        the negative, symbols that are extensions to the C
76  *                        Standard. See additional comments for GNU C differences.
77  *
78  * _STDC_C99             __STDC_VERSION__ is specified by the C standards and
79  *                        defined by the compiler and indicates the version of
80  *                        the C standard. A value of 199901L indicates a
81  *                        compiler that complies with ISO/IEC 9899:1999, other-
82  *                        wise known as the C99 standard.
83  *
84  * _STRICT_SYMBOLS      Used in cases where symbol visibility is restricted
85  *                        by the standards, and the user has not explicitly
86  *                        relaxed the strictness via __EXTENSIONS__.
87  */
88
89 #if defined(__XOPEN_SOURCE) || defined(_POSIX_C_SOURCE)
90 #define __XOPEN_OR_POSIX
91 #endif
92
93 /*
94  * ISO/IEC 9899:1990 and it's revision, ISO/IEC 9899:1999 specify the
95  * following predefined macro name:
96  *
97  * __STDC__             The integer constant 1, intended to indicate a conforming
98  *                        implementation.
99  *
100 * Furthermore, a strictly conforming program shall use only those features
101 * of the language and library specified in these standards. A conforming
102 * implementation shall accept any strictly conforming program.
103 *
104 * Based on these requirements, Sun's C compiler defines __STDC__ to 1 for
105 * strictly conforming environments and __STDC__ to 0 for environments that
106 * use ANSI C semantics but allow extensions to the C standard. For non-ANSI
107 * C semantics, Sun's C compiler does not define __STDC__.
108 *
109 * The GNU C project interpretation is that __STDC__ should always be defined
110 * to 1 for compilation modes that accept ANSI C syntax regardless of whether
111 * or not extensions to the C standard are used. Violations of conforming
112 * behavior are conditionally flagged as warnings via the use of the
113 * -pedantic option. In addition to defining __STDC__ to 1, the GNU C
114 * compiler also defines __STRICT_ANSI__ as a means of specifying strictly
115 * conforming environments using the -ansi or -std=<standard> options.
116 *
117 * In the absence of any other compiler options, Sun and GNU set the value
118 * of __STDC__ as follows when using the following options:
119 *
120 *
121 *
122 * Value of __STDC__  __STRICT_ANSI__
123 *
124 * cc -Xa (default)           0             undefined
125 * cc -Xt (transitional)      0             undefined
126 * cc -Xc (strictly conforming) 1             undefined

```



```

257 * _XOPEN_SOURCE XPG3
258 * _XOPEN_SOURCE && _XOPEN_VERSION = 4 XPG4
259 * _XOPEN_SOURCE && _XOPEN_SOURCE_EXTENDED = 1 XPG4v2
260 * _XOPEN_SOURCE = 500 XPG5
261 * _XOPEN_SOURCE = 600 (or POSIX_C_SOURCE=200112L) XPG6
262 * _XOPEN_SOURCE = 700 (or POSIX_C_SOURCE=200809L) XPG7
263 *
264 * In order to simplify the guards within the headers, the following
265 * implementation private test macros have been created. Applications
266 * must NOT use these private test macros as unexpected results will
267 * occur.
268 *
269 * Note that in general, the use of these private macros is cumulative.
270 * For example, the use of _XPG3 with no other restrictions on the X/Open
271 * namespace will make the symbols visible for XPG3 through XPG6
272 * compilation environments. The use of _XPG4_2 with no other X/Open
273 * namespace restrictions indicates that the symbols were introduced in
274 * XPG4v2 and are therefore visible for XPG4v2 through XPG6 compilation
275 * environments, but not for XPG3 or XPG4 compilation environments.
276 *
277 * _XPG3 X/Open Portability Guide, Issue 3 (XPG3)
278 * _XPG4 X/Open CAE Specification, Issue 4 (XPG4)
279 * _XPG4_2 X/Open CAE Specification, Issue 4, Version 2 (XPG4v2/UNIX 95/SUS)
280 * _XPG5 X/Open CAE Specification, Issue 5 (XPG5/UNIX 98/SUSv2)
281 * _XPG6 Open Group Technical Standard, Issue 6 (XPG6/UNIX 03/SUSv3)
282 * _XPG7 Open Group Technical Standard, Issue 7 (XPG7/UNIX 08/SUSv4)
283 */

285 /* X/Open Portability Guide, Issue 3 */
286 #if defined(_XOPEN_SOURCE) && (_XOPEN_SOURCE - 0 < 500) && \
287     (_XOPEN_VERSION - 0 < 4) && !defined(_XOPEN_SOURCE_EXTENDED)
288 #define _XPG3
289 /* X/Open CAE Specification, Issue 4 */
290 #elif defined(_XOPEN_SOURCE) && _XOPEN_VERSION - 0 == 4)
291 #define _XPG4
292 #define _XPG3
293 /* X/Open CAE Specification, Issue 4, Version 2 */
294 #elif defined(_XOPEN_SOURCE) && _XOPEN_SOURCE_EXTENDED - 0 == 1)
295 #define _XPG4_2
296 #define _XPG4
297 #define _XPG3
298 /* X/Open CAE Specification, Issue 5 */
299 #elif (_XOPEN_SOURCE - 0 == 500)
300 #define _XPG5
301 #define _XPG4_2
302 #define _XPG4
303 #define _XPG3
304 #undef _POSIX_C_SOURCE
305 #define _POSIX_C_SOURCE 199506L
306 /* Open Group Technical Standard, Issue 6 */
307 #elif (_XOPEN_SOURCE - 0 == 600) || (_POSIX_C_SOURCE - 0 == 200112L)
308 #define _XPG6
309 #define _XPG5
310 #define _XPG4_2
311 #define _XPG4
312 #define _XPG3
313 #undef _POSIX_C_SOURCE
314 #define _POSIX_C_SOURCE 200112L
315 #undef _XOPEN_SOURCE
316 #define _XOPEN_SOURCE 600

318 /* Open Group Technical Standard, Issue 7 */
319 #elif (_XOPEN_SOURCE - 0 == 700) || (_POSIX_C_SOURCE - 0 == 200809L)
320 #define _XPG7
321 #define _XPG6
322 #define _XPG5

```

```

323 #define _XPG4_2
324 #define _XPG4
325 #define _XPG3
326 #undef _POSIX_C_SOURCE
327 #define _POSIX_C_SOURCE 200809L
328 #undef _XOPEN_SOURCE
329 #define _XOPEN_SOURCE 700
330 #endif

332 /*
333 * _XOPEN_VERSION is defined by the X/Open specifications and is not
334 * normally defined by the application, except in the case of an XPG4
335 * application. On the implementation side, _XOPEN_VERSION defined with
336 * the value of 3 indicates an XPG3 application, _XOPEN_VERSION defined
337 * with the value of 4 indicates an XPG4 or XPG4v2 (UNIX 95) application.
338 * _XOPEN_VERSION defined with a value of 500 indicates an XPG5 (UNIX 98)
339 * application and with a value of 600 indicates an XPG6 (UNIX 03)
340 * application and with a value of 700 indicates an XPG7 (UNIX 08).
341 * The appropriate version is determined by the use of the
342 * feature test macros described earlier. The value of _XOPEN_VERSION
343 * defaults to 3 otherwise indicating support for XPG3 applications.
344 */
345 #ifndef _XOPEN_VERSION
346 #if defined(_XPG7)
347 #define _XOPEN_VERSION 700
348 #elif defined(_XPG6)
349 #define _XOPEN_VERSION 600
350 #elif defined(_XPG5)
351 #define _XOPEN_VERSION 500
352 #elif defined(_XPG4_2)
353 #define _XOPEN_VERSION 4
354 #else
355 #define _XOPEN_VERSION 3
356 #endif
357 #endif

359 /*
360 * ANSI C and ISO 9899:1990 say the type long long doesn't exist in strictly
361 * conforming environments. ISO 9899:1999 says it does.
362 *
363 * The presence of _LONGLONG_TYPE says "long long exists" which is therefore
364 * defined in all but strictly conforming environments that disallow it.
365 */
366 #if !defined(_STDC_C99) && defined(_STRICT_STDC) && !defined(__GNUC__)
367 /*
368 * Resist attempts to force the definition of long long in this case.
369 */
370 #if defined(_LONGLONG_TYPE)
371 #error "No long long in strictly conforming ANSI C & 1990 ISO C environments"
372 #endif
373 #else
374 #if !defined(_LONGLONG_TYPE)
375 #define _LONGLONG_TYPE
376 #endif
377 #endif

379 /*
380 * It is invalid to compile an XPG3, XPG4, XPG4v2, or XPG5 application
381 * using c99. The same is true for POSIX.1-1990, POSIX.2-1992, POSIX.1b,
382 * and POSIX.1c applications. Likewise, it is invalid to compile an XPG6
383 * or a POSIX.1-2001 application with anything other than a c99 or later
384 * compiler. Therefore, we force an error in both cases.
385 */
386 #if defined(_STDC_C99) && (defined(__XOPEN_OR_POSIX) && !defined(_XPG6))
387 #error "Compiler or options invalid for pre-UNIX 03 X/Open applications \
388     and pre-2001 POSIX applications"

```

```
389 #elif !defined(__STDC_C99) && \  
390      (defined(__XOPEN_OR_POSIX) && defined(__XPG6))  
391 #error "Compiler or options invalid; UNIX 03 and POSIX.1-2001 applications \  
392      require the use of c99"  
393 #endif  
  
395 /*  
396  * The following macro defines a value for the ISO C99 restrict  
397  * keyword so that _RESTRICT_KYWD resolves to "restrict" if  
398  * an ISO C99 compiler is used and "" (null string) if any other  
399  * compiler is used. This allows for the use of single prototype  
400  * declarations regardless of compiler version.  
401  */  
402 #if (defined(__STDC__) && defined(__STDC_C99)) && !defined(__cplusplus)  
403 #define _RESTRICT_KYWD restrict  
404 #else  
405 #define _RESTRICT_KYWD  
406 #endif  
  
408 /*  
409  * The following macro indicates header support for the ANSI C++  
410  * standard. The ISO/IEC designation for this is ISO/IEC FDIS 14882.  
411  */  
412 #define _ISO_CPP_14882_1998  
  
414 /*  
415  * The following macro indicates header support for the C99 standard,  
416  * ISO/IEC 9899:1999, Programming Languages - C.  
417  */  
418 #define _ISO_C_9899_1999  
  
420 /*  
421  * The following macro indicates header support for DTrace. The value is an  
422  * integer that corresponds to the major version number for DTrace.  
423  */  
424 #define _DTRACE_VERSION 1  
  
426 #ifdef __cplusplus  
427 }  
_____unchanged_portion_omitted_____
```

new/usr/src/uts/common/sys/fibre-channel/fc\_types.h

1

```
*****
5098 Sat Aug  2 23:27:20 2014
new/usr/src/uts/common/sys/fibre-channel/fc_types.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
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8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 #ifndef _FC_TYPES_H
29 #define _FC_TYPES_H

33 /*
34 * Types for FC Transport subsystems.
35 *
36 * This file picks up specific as well as generic type
37 * defines, and also serves as a wrapper for many common
38 * includes.
39 */

41 #include <sys/types.h>
42 #include <sys/param.h>

44 #ifdef __cplusplus
45 extern "C" {
46 #endif

48 #if !defined(_BIT_FIELDS_LTOH) && !defined(_BIT_FIELDS_HTOH)
49 #error One of _BIT_FIELDS_LTOH or _BIT_FIELDS_HTOH must be defined
50 #endif /* _BIT_FIELDS_LTOH */

52 #ifdef _KERNEL
53 #include <sys/system.h>
54 #include <sys/cmn_err.h>
55 #include <sys/debug.h>
56 #include <sys/devops.h>
57 #include <sys/callb.h>
58 #include <sys/disp.h>
59 #include <sys/taskq.h>
60 #endif /* _KERNEL */
```

new/usr/src/uts/common/sys/fibre-channel/fc\_types.h

2

```
62 #ifndef _SYS_SCSI_SCSI_TYPES_H

63 #ifdef __STDC__
65 typedef void *opaque_t;
66 #else /* __STDC__ */
66 typedef char *opaque_t;
67 #endif /* __STDC__ */

67 #endif /* _SYS_SCSI_SCSI_TYPES_H */

69 /* Sysevent defs */
70 #define EC_SUNFC "EC_sunfc"
71 #define ESC_SUNFC_PORT_ATTACH "ESC_sunfc_port_attach"
72 #define ESC_SUNFC_PORT_DETACH "ESC_sunfc_port_detach"
73 #define ESC_SUNFC_PORT_ONLINE "ESC_sunfc_port_online"
74 #define ESC_SUNFC_PORT_OFFLINE "ESC_sunfc_port_offline"
75 #define ESC_SUNFC_PORT_RSCN "ESC_sunfc_port_rscn"
76 #define ESC_SUNFC_TARGET_ADD "ESC_sunfc_target_add"
77 #define ESC_SUNFC_TARGET_REMOVE "ESC_sunfc_target_remove"
78 #define ESC_SUNFC_DEVICE_ONLINE "ESC_sunfc_device_online"
79 #define ESC_SUNFC_DEVICE_OFFLINE "ESC_sunfc_device_offline"

81 /* T11 FC-HBA state change tracking */
82 typedef uint64_t fc_hba_state_change_t;

84 typedef struct port_id {
85 #if defined(_BIT_FIELDS_LTOH)
86     uint32_t port_id : 24, /* Port Identifier */
87     priv_lilp_posit : 8; /* LILP map position */
88 #else
89     uint32_t priv_lilp_posit : 8, /* LILP map position */
90     port_id : 24; /* Port Identifier */
91 #endif /* _BIT_FIELDS_LTOH */
92 } fc_portid_t;
unchanged_portion_omitted
```

new/usr/src/uts/common/sys/fs/cachefs\_dir.h

1

```
*****
2815 Sat Aug  2 23:27:21 2014
new/usr/src/uts/common/sys/fs/cachefs_dir.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 #ifndef _SYS_FS_CACHEFS_DIR_H
30 #define _SYS_FS_CACHEFS_DIR_H

32 #include <sys/types.h>
33 #include <sys/fs/cachefs_fs.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 /*
40  * c_dirent is stored on disk, so it needs to be the same 32-bit vs. 64-bit.
41  */

43 #if _LONG_LONG_ALIGNMENT == 8 && _LONG_LONG_ALIGNMENT_32 == 4
44 #pragma pack(4)
45 #endif

47 struct c_dirent {
48     uint_t      d_length;      /* entry length */
49     uint_t      d_flag;       /* entry flags */
50     cfs_cid_t   d_id;         /* file id */
51     offset_t    d_offset;     /* disk offset of this entry */
52     cfs_fid_t   d_cookie;     /* back fid */
53     ushort_t    d_namelen;    /* name length, without null */
54     char        d_name[];     /* name */
55 };

57 #if _LONG_LONG_ALIGNMENT == 8 && _LONG_LONG_ALIGNMENT_32 == 4
58 #pragma pack()
59 #endif
```

new/usr/src/uts/common/sys/fs/cachefs\_dir.h

2

```
61 #define C_DIRSIZ(dp) \
62     (((dp)->d_namelen + (uint_t)sizeof (struct c_dirent) + 7) & ~7)

64 #define CDE_SIZE(NM) \
65     ((strlen(NM) + sizeof (struct c_dirent) + 7) & ~7)

67 /*
68  * Various flags stored in c_dirent flag field.
69  */
70 #define CDE_VALID      0x1      /* entry is valid */
71 #define CDE_COMPLETE  0x2      /* entry is complete */

74 #if defined(_KERNEL)
74 #if defined(_KERNEL) && defined(__STDC__)
75 int cachefs_dir_look(cnode_t *dcp, char *nm, fid_t *cookiep, uint_t *flagp,
76     u_offset_t *d_offsetp, cfs_cid_t *cidp);
77 int cachefs_dir_new(cnode_t *dcp, cnode_t *cp);
78 int cachefs_dir_enter(cnode_t *dcp, char *nm, fid_t *cookiep, cfs_cid_t *cidp,
79     int issync);
80 int cachefs_dir_rmentry(cnode_t *dcp, char *nm);
81 void cachefs_dir_modentry(cnode_t *dcp, u_offset_t offset, fid_t *cookiep,
82     cfs_cid_t *cidp);
83 int cachefs_dir_read(struct cnode *dcp, struct uio *uiop, int *eofp);
84 int cachefs_dir_fill(cnode_t *dcp, cred_t *cr);
85 int cachefs_dir_empty(cnode_t *dcp);
86 int cachefs_async_populate_dir(struct cachefs_populate_req *, cred_t *,
87     vnode_t *, vnode_t *);

89 #endif /* defined(_KERNEL) */
89 #endif /* defined(_KERNEL) && defined(__STDC__) */

91 #ifdef __cplusplus
92 }
    unchanged_portion_omitted

```

```

*****
10651 Sat Aug  2 23:27:21 2014
new/usr/src/uts/common/sys/fs/cachefs_dlog.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
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19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
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27 */

29 #ifndef _SYS_FS_CACHEFS_DLOG_H
30 #define _SYS_FS_CACHEFS_DLOG_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/vfs.h>
33 #include <sys/acl.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 /*
40  * Version number of log file format.
41  * Put in an int at the start of the file.
42  * Large Files: Increment VER by 1.
43  */
44 #define CFS_DLOG_VERSION 1001

46 /* valid types of dlog records */
47 enum cfs_dlog_op {
48     CFS_DLOG_CREATE = 0x100,
49     CFS_DLOG_REMOVE,
50     CFS_DLOG_LINK,
51     CFS_DLOG_RENAME,
52     CFS_DLOG_MKDIR,
53     CFS_DLOG_RMDIR,
54     CFS_DLOG_SYMLINK,
55     CFS_DLOG_SETATTR,
56     CFS_DLOG_SETSECATTR,
57     CFS_DLOG_MODIFIED,
58     CFS_DLOG_MAPFID,
59     CFS_DLOG_TRAILER

```

```

60 };
_____unchanged_portion_omitted_____
261 typedef struct cfs_dlog_entry cfs_dlog_entry_t;

263 /*
264  * XXXX the maxsize calculation below will give wrong answer if
265  * the total size of struct cfs_dlog_setsecattr + max aclsize is less than
266  * the size of the union above. This is currently true, but to be on the safe
267  * side, use struct size plus acl size (minus trailer because it's not
268  * not counted in the length field).
269 */
270 #define CFS_DLOG_SECATTR_MAXSIZE (sizeof (struct cfs_dlog_setsecattr) + \
271     (sizeof (aclent_t) * MAX_ACL_ENTRIES))

273 #ifndef MAX
274 #define MAX(a, b)      (((a) > (b)) ? (a) : (b))
275 #endif /* MAX */

277 #define CFS_DLOG_ENTRY_MAXSIZE \
278     MAX(offsetof(struct cfs_dlog_entry, dl_trailer), \
279         offsetof(struct cfs_dlog_entry, dl_u.dl_setsecattr) + \
280         CFS_DLOG_SECATTR_MAXSIZE)

282 #if defined(_KERNEL)
282 #if defined(_KERNEL) && defined(__STDC__)
283 int cachefs_dlog_setup(fscache_t *fscp, int createfile);
284 void cachefs_dlog_teardown(fscache_t *fscp);
285 int cachefs_dlog_commit(fscache_t *fscp, off_t offset, int error);
286 int cachefs_dlog_cidmap(fscache_t *fscp);
287 off_t cachefs_dlog_setattr(fscache_t *fscp, struct vattr *vap, int flags,
288     cnode_t *cp, cred_t *cr);
289 off_t
290 cachefs_dlog_setsecattr(fscache_t *fscp, vsecattr_t *vsec, int flags,
291     cnode_t *cp, cred_t *cr);
292 off_t cachefs_dlog_create(fscache_t *fscp, cnode_t *pcp, char *nm,
293     vattr_t *vap, int excl, int mode, cnode_t *cp, int exists, cred_t *cr);
294 off_t cachefs_dlog_remove(fscache_t *fscp, cnode_t *pcp, char *nm, cnode_t *cp,
295     cred_t *cr);
296 off_t cachefs_dlog_link(fscache_t *fscp, cnode_t *pcp, char *nm, cnode_t *cp,
297     cred_t *cr);
298 off_t cachefs_dlog_rename(fscache_t *fscp, cnode_t *odcp, char *onm,
299     cnode_t *ndcp, char *nnm, cred_t *cr, cnode_t *cp, cnode_t *delcp);
300 off_t cachefs_dlog_mkdir(fscache_t *fscp, cnode_t *pcp, cnode_t *cp, char *nm,
301     vattr_t *vap, cred_t *cr);
302 off_t cachefs_dlog_rmdir(fscache_t *fscp, cnode_t *pcp, char *nm, cnode_t *cp,
303     cred_t *cr);
304 off_t cachefs_dlog_symlink(fscache_t *fscp, cnode_t *pcp, cnode_t *cp,
305     char *lnm, vattr_t *vap, char *tnm, cred_t *cr);
306 off_t cachefs_dlog_modify(fscache_t *fscp, cnode_t *cp, cred_t *cr,
307     uint_t *seqp);
308 int cachefs_dlog_mapfid(fscache_t *fscp, cnode_t *cp);
309 uint_t cachefs_dlog_seqnext(fscache_t *fscp);
310 #endif

312 #ifdef __cplusplus
313 }
_____unchanged_portion_omitted_____

```

new/usr/src/uts/common/sys/fs/cacheefs\_fs.h

1

```
*****
45127 Sat Aug  2 23:27:21 2014
new/usr/src/uts/common/sys/fs/cacheefs_fs.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _SYS_FS_CACHEFS_FS_H
30 #define _SYS_FS_CACHEFS_FS_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #include <sys/vnode.h>
33 #include <sys/vfs.h>
34 #include <sys/types.h>
35 #include <sys/types32.h>
36 #include <sys/t_lock.h>
37 #include <sys/thread.h>
38 #include <sys/kmem.h>
39 #include <sys/inttypes.h>
40 #include <sys/time_impl.h>
41 #include <sys/system.h>

43 #ifdef __cplusplus
44 extern "C" {
45 #endif

47 #ifndef CFSDEBUG
48 #define CFSDEBUG_ALL          0xffffffff
49 #define CFSDEBUG_NONE        0x0
50 #define CFSDEBUG_GENERAL     0x1
51 #define CFSDEBUG_SUBR        0x2
52 #define CFSDEBUG_CNODE       0x4
53 #define CFSDEBUG_DIR          0x8
54 #define CFSDEBUG_STRICT      0x10
55 #define CFSDEBUG_VOPS         0x20
56 #define CFSDEBUG_VFSOP       0x40
57 #define CFSDEBUG_RESOURCE     0x80
58 #define CFSDEBUG_CHEAT        0x100
59 #define CFSDEBUG_INVALIDATE   0x200
```

new/usr/src/uts/common/sys/fs/cacheefs\_fs.h

2

```
60 #define CFSDEBUG_DLOG          0x400
61 #define CFSDEBUG_FILEGRP      0x800
62 #define CFSDEBUG_IOCTL        0x1000
63 #define CFSDEBUG_FRONT        0x2000
64 #define CFSDEBUG_BACK         0x4000
65 #define CFSDEBUG_ALLOCMAP     0x8000
66 #define CFSDEBUG_ASYNCPOP     0x10000
67 #define CFSDEBUG_VOPS_NFSV4   0x20000

69 #define CFSCLEANFLAG

71 extern int cacheefsdebug;

73 #define CFS_DEBUG(N)          if (cacheefsdebug & (N))
74 #endif /* DEBUG */

76 #if 0
77 #ifdef CFSDEBUG
78 /*
79  * Testing usage of cd_access and friends.
80  * Note we steal an unused bit in t_flag.
81  * This will certainly bite us later.
82  */
83 #define CFS_CD_DEBUG
84 #define T_CD_HELD            0x01000
85 #endif
86 #endif

88 /*
89  * Note: in an RL debugging kernel, CFSVERSION is augmented by 100
90  *
91  * Version History:
92  *
93  * Beginning -- Solaris 2.3 and 2.4: 1
94  *
95  * In Solaris 2.5 alpha, the size of fid_t changed: 2
96  *
97  * In 2.6: Chart, RL pointers/idents became rl_entry: 3
98  *      added which RL list to attrcache header: 4
99  *
100 * Large Files support made version to 6.
101 *
102 * Sequence numbers made version to 7.
103 *
104 * 64-bit on-disk cache will make version 8. Not yet supported.
105 */

107 #if 0
108 #define CFSRLDEBUG
109 #endif

111 #ifdef CFSRLDEBUG
112 #define CFSVERSION            110
113 #define CFSVERSION64         111 /* 64-bit cache - not yet used */
114 #else /* CFSRLDEBUG */
115 #define CFSVERSION            7
116 #define CFSVERSION64         8 /* 64-bit cache - not yet used */
117 #endif /* CFSRLDEBUG */

119 /* Some default values */
120 #define DEF_FILEGRP_SIZE      256
121 #define DEF_POP_SIZE          0x10000 /* 64K */
122 #define CACHELABEL_NAME      ".cfs_label"
123 #define RESOURCE_NAME        ".cfs_resource"
124 #define CACHEFS_FSINFO       ".cfs_fsinfo"
125 #define ATTRCACHE_NAME       ".cfs_attrcache"
```



```

126 #define CACHEFS_LOSTFOUND_NAME "lost+found"
127 #define BACKMNT_NAME ".cfs_mnt_points"
128 #define CACHEFS_LOCK_FILE ".cfs_lock"
129 #define CACHEFS_DLOG_FILE ".cfs_dlog"
130 #define CACHEFS_DMAP_FILE ".cfs_dmap"
131 #define CACHEFS_MNT_FILE ".cfs_mnt"
132 #define CACHEFS_UNMNT_FILE ".cfs_unmnt"
133 #define LOG_STATUS_NAME ".cfs_logging"
134 #define NOBACKUP_NAME ".nsr"
135 #define CACHEFS_PREFIX ".cfs_"
136 #define CACHEFS_PREFIX_LEN 5
137 #define ROOTLINK_NAME "root"
138 #define CFS_FRONTFILE_NAME_SIZE 18
139 #define CACHEFS_BASETYPE "cachefs" /* used in statvfs() */
140 #define CFS_MAXFREEENODES 20
141 #define CACHEFS_STAB "/etc/cachefstab"
142 #define CACHEFS_ROOTRUN "/var/run"
143 #define CACHEFS_LOCKDIR_PRE ".cachefs." /* used by mount(1M)/fsck(1M) */

145 /*
146 * The options structure is passed in as part of the mount arguments.
147 * It is stored in the .options file and kept track of in the fscache
148 * structure.
149 */
150 struct cachefsoptions {
151     uint_t      opt_flags;          /* mount flags */
152     int         opt_popsizes;       /* cache population size */
153     int         opt_fgsize;        /* filegrp size, default 256 */
154 };
155
156 unchanged portion omitted

1107 /*
1108 * cachefs function prototypes
1109 */
1110 #if defined(KERNEL)
1111 #if defined(KERNEL) && defined(__STDC__)
1112 extern int cachefs_getcookie(vnode_t *, struct fid *, struct vattr *,
1113                             cred_t *, uint32_t);
1114 void cachefs_cache_create(void);
1115 void cachefs_cache_destroy(cachefscache_t *cachep);
1116 int cachefs_cache_activate_ro(cachefscache_t *cachep, vnode_t *cdvp);
1117 void cachefs_cache_activate_rw(cachefscache_t *cachep);
1118 void cachefs_cache_dirty(struct cachefscache *cachep, int lockit);
1119 int cachefs_cache_rssync(struct cachefscache *cachep);
1120 void cachefs_cache_sync(struct cachefscache *cachep);
1121 uint_t cachefs_cache_unique(cachefscache_t *cachep);
1122 void cachefs_do_req(struct cachefs_req *);

1123 /* cachefs_cnode.c */
1124 void cachefs_cnode_idle(struct vnode *vp, cred_t *cr);
1125 void cachefs_cnode_idlean(fscache_t *fscp, int unmount);
1126 int cachefs_cnode_inactive(register struct vnode *vp, cred_t *cr);
1127 void cachefs_cnode_listadd(struct cnode *cp);
1128 void cachefs_cnode_listrem(struct cnode *cp);
1129 void cachefs_cnode_free(struct cnode *cp);
1130 void cachefs_cnode_cleanfreelist();
1131 void cachefs_cnode_idleadd(struct cnode *cp);
1132 void cachefs_cnode_idlerem(struct cnode *cp);
1133 int cachefs_cnode_find(filegrp_t *fgp, cfs_cid_t *cidp, fid_t *cookiep,
1134                        struct cnode **cpp, struct vnode *vp, vattr_t *vap);
1135 int cachefs_cnode_make(cfs_cid_t *cidp, fscache_t *fscp, fid_t *cookiep,
1136                       vattr_t *vap, vnode_t *backvp, cred_t *cr, int flag, cnode_t **cpp);
1137 int cachefs_cid_inuse(filegrp_t *fgp, cfs_cid_t *cidp);
1138 int cachefs_fileno_inuse(fscache_t *fscp, ino64_t fileno);
1139 int cachefs_cnode_create(fscache_t *fscp, vattr_t *vap, int flag,
1140                          cnode_t **cpp);

```

```

1141 void cachefs_cnode_move(cnode_t *cp);
1142 int cachefs_cnode_lostfound(cnode_t *cp, char *rname);
1143 void cachefs_cnode_sync(cnode_t *cp);
1144 void cachefs_cnode_traverse(fscache_t *fscp, void (*routinep)(cnode_t *));
1145 void cachefs_cnode_stale(cnode_t *cp);
1146 void cachefs_cnode_setlocalstats(cnode_t *cp);
1147 void cachefs_cnode_disable_caching(cnode_t *cp);

1149 void cachefs_enable_caching(struct fscache *);

1151 /* cachefs_fscache.c */
1152 void fscache_destroy(fscache_t *);

1154 /* cachefs_ioctl.h */
1155 int cachefs_pack_common(vnode_t *vp, cred_t *cr);
1156 void cachefs_inum_register(fscache_t *fscp, ino64_t real, ino64_t fake);
1157 ino64_t cachefs_inum_real2fake(fscache_t *fscp, ino64_t real);

1160 /* cachefs_subr.c */
1161 int cachefs_sync_metadata(cnode_t *);
1162 int cachefs_cnode_cnt(int);
1163 int cachefs_getbackvp(struct fscache *, struct cnode *);
1164 int cachefs_getfrontfile(cnode_t *);
1165 void cachefs_removefrontfile(cachefs_metadata_t *mdp, cfs_cid_t *cidp,
1166                               filegrp_t *fgp);
1167 void cachefs_nocache(cnode_t *);
1168 void cachefs_inval_object(cnode_t *);
1169 void make_ascii_name(cfs_cid_t *cidp, char *strp);
1170 int cachefs_async_halt(struct cachefs_workq *, int);
1171 int cachefs_async_okay(void);
1172 int cachefs_check_allocmap(cnode_t *cp, u_offset_t off);
1173 void cachefs_update_allocmap(cnode_t *, u_offset_t, size_t);
1174 int cachefs_cachesymlink(struct cnode *cp, cred_t *cr);
1175 int cachefs_stuffsymlink(cnode_t *cp, caddr_t buf, int buflen);
1176 int cachefs_readlink_back(cnode_t *cp, cred_t *cr, caddr_t *bufp, int *buflenp);
1177 /*
1178 * void cachefs_cluster_allocmap(struct cnode *, u_offset_t, u_offset_t *,
1179 *                               size_t *, size_t);
1180 */
1181 void cachefs_cluster_allocmap(u_offset_t, u_offset_t *, size_t *, size_t,
1182                               struct cnode *);
1183 int cachefs_populate(cnode_t *, u_offset_t, size_t, vnode_t *, vnode_t *,
1184                     u_offset_t, cred_t *);
1185 int cachefs_stats_kstat_snapshot(kstat_t *, void *, int);
1186 cachefs_debug_info_t *cachefs_debug_save(cachefs_debug_info_t *, int,
1187                                           char *, uint_t, int, void *, cachefscache_t *, struct fscache *,
1188                                           struct cnode *);
1189 void cachefs_debug_show(cachefs_debug_info_t *);
1190 uint32_t cachefs_cred_checksum(cred_t *cr);
1191 int cachefs_frontfile_size(cnode_t *cp, u_offset_t length);
1192 int cachefs_req_create(void *, void *, int);
1193 void cachefs_req_destroy(void *, void *);
1194 int cachefs_stop_cache(cnode_t *);

1197 /* cachefs_resource.c */
1198 void cachefs_rlent_moveto_nolock(cachefscache_t *cachep,
1199                                 enum cachefs_rl_type type, uint_t entno, size_t);
1200 void cachefs_rlent_moveto(cachefscache_t *, enum cachefs_rl_type, uint_t,
1201                           size_t);
1202 void cachefs_rlent_verify(cachefscache_t *, enum cachefs_rl_type, uint_t);
1203 void cachefs_rl_changefileno(cachefscache_t *cachep, uint_t entno,
1204                              ino64_t fileno);
1205 int cachefs_rlent_data(cachefscache_t *cachep, rl_entry_t *valp,
1206                       uint_t *entnop);

```

```

1207 void cachefs_move_modified_to_mf(cachefscache_t *cachep, fscache_t *fscp);
1208 int cachefs_allocblocks(cachefscache_t *, size_t, enum cachefs_rl_type);
1209 void cachefs_freeblocks(cachefscache_t *, size_t, enum cachefs_rl_type);
1210 void cachefs_freefile(cachefscache_t *);
1211 int cachefs_allocfile(cachefscache_t *);
1212 int cachefs_rl_alloc(struct cachefscache *cachep, rl_entry_t *valp,
1213     uint_t *entnop);
1214 int cachefs_rl_attrc(struct cachefscache *, int, int);
1215 void cachefs_cachep_worker_thread(cachefscache_t *);
1216 void cachefs_rl_cleanup(cachefscache_t *);
1217 int cachefs_rl_entry_get(cachefscache_t *, uint_t, rl_entry_t **);
1218 #ifdef CFSRLDEBUG
1219 void cachefs_rl_debug_save(rl_entry_t *);
1220 void cachefs_rl_debug_show(rl_entry_t *);
1221 void cachefs_rl_debug_destroy(rl_entry_t *);
1222 #endif /* CFSRLDEBUG */

1224 /* cachefs_log.c */
1225 int cachefs_log_kstat_snapshot(kstat_t *, void *, int);
1226 void cachefs_log_process_queue(cachefscache_t *, int);
1227 int cachefs_log_logfile_open(cachefscache_t *, char *);
1228 struct cachefs_log_cookie
1229     *cachefs_log_create_cookie(struct cachefs_log_control *);
1230 void cachefs_log_error(cachefscache_t *, int, int);
1231 void cachefs_log_destroy_cookie(struct cachefs_log_cookie *);

1233 void cachefs_log_mount(cachefscache_t *, int, struct vfs *,
1234     fscache_t *, char *, enum uio_seg, char *);
1235 void cachefs_log_umount(cachefscache_t *, int, struct vfs *);
1236 void cachefs_log_getpage(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1237     uid_t, u_offset_t, size_t);
1238 void cachefs_log_readdir(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1239     uid_t, u_offset_t, int);
1240 void cachefs_log_readlink(cachefscache_t *, int, struct vfs *,
1241     fid_t *, ino64_t, uid_t, size_t);
1242 void cachefs_log_remove(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1243     uid_t);
1244 void cachefs_log_rmdir(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1245     uid_t);
1246 void cachefs_log_truncate(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1247     uid_t, u_offset_t);
1248 void cachefs_log_putpage(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1249     uid_t, u_offset_t, size_t);
1250 void cachefs_log_create(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1251     uid_t);
1252 void cachefs_log_mkdir(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1253     uid_t);
1254 void cachefs_log_rename(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1255     int, uid_t);
1256 void cachefs_log_symlink(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1257     uid_t, int);
1258 void cachefs_log_populate(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1259     u_offset_t, size_t);
1260 void cachefs_log_csylmlink(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1261     int);
1262 void cachefs_log_filldir(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1263     u_offset_t);
1264 void cachefs_log_mdcreate(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1265     uint_t);
1266 void cachefs_log_gpfront(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1267     uid_t, u_offset_t, uint_t);
1268 void cachefs_log_rfdir(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1269     uid_t);
1270 void cachefs_log_ualloc(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,
1271     u_offset_t, size_t);
1272 void cachefs_log_calloc(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t,

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```

1273     u_offset_t, size_t);
1274 void cachefs_log_nocache(cachefscache_t *, int, struct vfs *, fid_t *, ino64_t);

1276 /* cachefs_vnops.c */
1277 struct vnodeops *cachefs_getvnodeops(void);
1278 int cachefs_lookup_common(vnode_t *dvp, char *nm, vnode_t **vpp,
1279     struct pathname *pnp, int flags, vnode_t *rdir, cred_t *cr);
1280 int cachefs_putpage_common(struct vnode *vp, offset_t off,
1281     size_t len, int flags, cred_t *cr);
1282 ino64_t cachefs_fileno_conflict(fscache_t *fscp, ino64_t old);
1283 int cachefs_remove_connected(vnode_t *dvp, char *nm, cred_t *cr,
1284     vnode_t *vp);
1285 int cachefs_remove_disconnected(vnode_t *dvp, char *nm, cred_t *cr,
1286     vnode_t *vp);
1287 int cachefs_cacheacl(cnode_t *, vsecattr_t *);
1288 void cachefs_purgeacl(cnode_t *);
1289 int cachefs_vtype_aclok(vnode_t *);

1291 /* cachefs_vfsops.c */
1292 int cachefs_init_vfsops(int);
1293 int cachefs_init_vnops(char *);
1294 void cachefs_kstat_mount(struct fscache *, char *, char *, char *, char *);
1295 void cachefs_kstat_umount(int);
1296 int cachefs_kstat_key_update(kstat_t *, int);
1297 int cachefs_kstat_key_snapshot(kstat_t *, void *, int);

1299 extern void cachefs_workq_init(struct cachefs_workq *);
1300 extern void cachefs_addqueue(struct cachefs_req *, struct cachefs_workq *);

1303 extern void *cachefs_kmem_alloc(size_t, int);
1304 extern void *cachefs_kmem_zalloc(size_t, int);
1305 extern void cachefs_kmem_free(void *, size_t);
1306 extern char *cachefs_strdup(char *);

1308 #endif /* defined (_KERNEL) */
1308 #endif /* defined (_KERNEL) && defined (__STDC__) */

1312 #define C_RL_MAXENTS    0x4000        /* Whatever */

1314 /*
1315  * ioctls.
1316  */
1317 #include <sys/ioccom.h>
1318 #define _FIOCOD         _IO('f', 78)        /* consistency on demand */
1319 #define _FIOSTOPCACHE  _IO('f', 86)        /* stop using cache */

1321 #define CACHEFSIO_PACK        _IO('f', 81)
1322 #define CACHEFSIO_UNPACK     _IO('f', 82)
1323 #define CACHEFSIO_UNPACKALL  _IO('f', 83)
1324 #define CACHEFSIO_PACKINFO   _IO('f', 84)
1325 #define CACHEFSIO_DCMD       _IO('f', 85)

1327 #ifdef __cplusplus
1328 }

```

unchanged portion omitted

new/usr/src/uts/common/sys/fs/ufs\_filio.h

1

\*\*\*\*\*

3125 Sat Aug 2 23:27:21 2014

new/usr/src/uts/common/sys/fs/ufs\_filio.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
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17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
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21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2007 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */
```

```
28 #ifndef _SYS_FS_UFS_FILIO_H
29 #define _SYS_FS_UFS_FILIO_H
```

```
29 #pragma ident "%Z%M %I% %E% SMI"
```

```
31 #ifdef __cplusplus
32 extern "C" {
33 #endif
```

```
35 /*
36  * _FIOIO
37  *
38  * struct for _FIOIO ioctl():
39  *   Input:
40  *     fio_ino - inode number
41  *     fio_gen - generation number
42  *   Output:
43  *     fio_fd - readonly file descriptor
44  *
45  */
```

```
47 struct fioio {
48     ino_t   fio_ino;      /* input : inode number */
49     int     fio_gen;     /* input : generation number */
50     int     fio_fd;      /* output: readonly file descriptor */
51 };
```

unchanged portion omitted

```
83 #define FIOLOG_ENONE 0
84 #define FIOLOG_ETRANS 1
85 #define FIOLOG_EROFs 2
86 #define FIOLOG_EULOCK 3
87 #define FIOLOG_EWLOCK 4
88 #define FIOLOG_ECLEAN 5
```

new/usr/src/uts/common/sys/fs/ufs\_filio.h

2

```
89 #define FIOLOG_ENOULOCK 6
```

```
91 #if defined(_KERNEL)
```

```
91 #if defined(_KERNEL) && defined(__STDC__)
```

```
93 extern int     ufs_fiosatime(struct vnode *, struct timeval *, int,
94                          struct cred *);
95 extern int     ufs_fiosdio(struct vnode *, uint_t *, int flag, struct cred *);
96 extern int     ufs_fiogdio(struct vnode *, uint_t *, int flag, struct cred *);
97 extern int     ufs_fioio(struct vnode *, struct fioio *, int, struct cred *);
98 extern int     ufs_fioisbusy(struct vnode *, int *, struct cred *);
99 extern int     ufs_fiodirectio(struct vnode *, int, struct cred *);
100 extern int     ufs_fiotune(struct vnode *, struct fiotune *, struct cred *);
101 extern int     ufs_fiologenable(vnode_t *, fiolog_t *, cred_t *, int);
102 extern int     ufs_fiologdisable(vnode_t *, fiolog_t *, cred_t *, int);
103 extern int     ufs_fioislog(vnode_t *, uint32_t *, cred_t *, int);
104 extern int     ufs_fio_holey(vnode_t *, int, offset_t *);
105 extern int     ufs_mark_compressed(struct vnode *vp);
```

```
107 #endif /* defined(_KERNEL) */
```

```
107 #endif /* defined(_KERNEL) && defined(__STDC__) */
```

```
109 #ifdef __cplusplus
```

```
110 }
```

unchanged portion omitted

new/usr/src/uts/common/sys/fs/ufs\_prot.h

1

```
*****
5874 Sat Aug  2 23:27:21 2014
new/usr/src/uts/common/sys/fs/ufs_prot.h
remove support for non-ANSI compilation
*****
1 /*
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */
28
29 /*
30 * Please do not edit this file.
31 * It was generated using rpcgen.
32 */
33
34 #ifndef _SYS_FS_UFS_PROT_H
35 #define _SYS_FS_UFS_PROT_H
36
37 #pragma ident  "%Z%M% %I%      %E% SMI"
38
39 #include <rpc/rpc.h>
40
41 #ifdef __cplusplus
42 extern "C" {
43 #endif
44
45 #include <sys/fs/ufs_fs.h>
46 #include <sys/types.h>
47 #include <sys/errno.h>
48
49 enum ufsdrc_t {
50     UFSDRD_OK = 0,
51     UFSDRD_NOENT = ENOENT,
52     UFSDRD_PERM = EPERM,
53     UFSDRD_INVAL = EINVAL,
54     UFSDRD_NOEXEC = ENOEXEC,
55     UFSDRD_NODEV = ENODEV,
56     UFSDRD_NXIO = ENXIO,
57     UFSDRD_BUSY = EBUSY,
58     UFSDRD_OPNOTSUP = EOPNOTSUPP,
59     UFSDRD_EXECERR = 254,
60     UFSDRD_ERR = 255
61 };
62
63 unchanged_portion_omitted
```

new/usr/src/uts/common/sys/fs/ufs\_prot.h

2

```
151 typedef struct ufsd_msg_t ufsd_msg_t;
152 #define UFSD_SERVNAME "ufsd"
153 #define xdr_dev_t      xdr_u_int
154 #define xdr_time_t     xdr_int
155 /*
156  * Set UFSD_THISVERS to the newest version of the protocol
157  * This allows the preprocessor to force an error if the
158  * protocol changes, since the kernel xdr routines may need to be
159  * recoded. Note that we can't explicitly set the version to a
160  * symbol as rpcgen will then create erroneous routine names.
161  */
162 #define UFSD_V1          1
163 #define UFSD_ORIGVERS   UFSD_V1
164 #define UFSD_THISVERS   1
165
166 #define UFSD_PROG ((unsigned long)(100233))
167 #define UFSD_VERS ((unsigned long)(1))
168
169 #if defined(__STDC__) || defined(__cplusplus)
170 #define UFSD_NULL ((unsigned long)(0))
171 extern ufsdrc_t *ufsd_null_1(void *, CLIENT *);
172 extern ufsdrc_t *ufsd_null_1_svc(void *, struct svc_req *);
173 #define UFSD_REPAIRFS ((unsigned long)(1))
174 extern ufsdrc_t *ufsd_repairfs_1(ufsd_repairfs_args_t *, CLIENT *);
175 extern ufsdrc_t *ufsd_repairfs_1_svc(ufsd_repairfs_args_t *, struct svc_req *);
176 #define UFSD_REPAIRFSLIST ((unsigned long)(2))
177 extern ufsdrc_t *ufsd_repairfslist_1(ufsd_repairfs_list_t *, CLIENT *);
178 extern ufsdrc_t *ufsd_repairfslist_1_svc(ufsd_repairfs_list_t *, struct svc_req *);
179 #define UFSD_SEND ((unsigned long)(3))
180 extern ufsdrc_t *ufsd_send_1(ufsd_msg_t *, CLIENT *);
181 extern ufsdrc_t *ufsd_send_1_svc(ufsd_msg_t *, struct svc_req *);
182 #define UFSD_RECV ((unsigned long)(4))
183 extern ufsdrc_t *ufsd_recv_1(ufsd_msg_t *, CLIENT *);
184 extern ufsdrc_t *ufsd_recv_1_svc(ufsd_msg_t *, struct svc_req *);
185 #define UFSD_EXIT ((unsigned long)(5))
186 extern ufsdrc_t *ufsd_exit_1(void *, CLIENT *);
187 extern ufsdrc_t *ufsd_exit_1_svc(void *, struct svc_req *);
188 extern int ufsd_prog_1_freeresult(SVCXPRT *, xdrproc_t, caddr_t);
189
190 #else /* K&R C */
191 #define UFSD_NULL ((unsigned long)(0))
192 extern ufsdrc_t *ufsd_null_1();
193 extern ufsdrc_t *ufsd_null_1_svc();
194 #define UFSD_REPAIRFS ((unsigned long)(1))
195 extern ufsdrc_t *ufsd_repairfs_1();
196 extern ufsdrc_t *ufsd_repairfs_1_svc();
197 #define UFSD_REPAIRFSLIST ((unsigned long)(2))
198 extern ufsdrc_t *ufsd_repairfslist_1();
199 extern ufsdrc_t *ufsd_repairfslist_1_svc();
200 #define UFSD_SEND ((unsigned long)(3))
201 extern ufsdrc_t *ufsd_send_1();
202 extern ufsdrc_t *ufsd_send_1_svc();
203 #define UFSD_RECV ((unsigned long)(4))
204 extern ufsdrc_t *ufsd_recv_1();
205 extern ufsdrc_t *ufsd_recv_1_svc();
206 #define UFSD_EXIT ((unsigned long)(5))
207 extern ufsdrc_t *ufsd_exit_1();
208 extern ufsdrc_t *ufsd_exit_1_svc();
209 extern int ufsd_prog_1_freeresult();
210 #endif /* K&R C */
211
212 /* the xdr functions */
213
214 #if defined(__STDC__) || defined(__cplusplus)
```

```
193 extern bool_t xdr_ufsdrc_t(XDR *, ufsdrc_t *);
194 extern bool_t xdr_fs_identity_t(XDR *, fs_identity_t *);
195 extern bool_t xdr_ufsd_repairfs_args_t(XDR *, ufsd_repairfs_args_t *);
196 extern bool_t xdr_ufsd_repairfs_list_t(XDR *, ufsd_repairfs_list_t *);
197 extern bool_t xdr_ufsd_event_t(XDR *, ufsd_event_t *);
198 extern bool_t xdr_ufsd_boot_type_t(XDR *, ufsd_boot_type_t *);
199 extern bool_t xdr_ufsd_log_op_t(XDR *, ufsd_log_op_t *);
200 extern bool_t xdr_ufsd_fsck_state_t(XDR *, ufsd_fsck_state_t *);
201 extern bool_t xdr_ufsd_log_data_t(XDR *, ufsd_log_data_t *);
202 extern bool_t xdr_ufsd_log_msg_t(XDR *, ufsd_log_msg_t *);
203 extern bool_t xdr_ufsd_msg_vardata_t(XDR *, ufsd_msg_vardata_t *);
204 extern bool_t xdr_ufsd_msg_t(XDR *, ufsd_msg_t *);
```

```
230 #else /* K&R C */
231 extern bool_t xdr_ufsdrc_t();
232 extern bool_t xdr_fs_identity_t();
233 extern bool_t xdr_ufsd_repairfs_args_t();
234 extern bool_t xdr_ufsd_repairfs_list_t();
235 extern bool_t xdr_ufsd_event_t();
236 extern bool_t xdr_ufsd_boot_type_t();
237 extern bool_t xdr_ufsd_log_op_t();
238 extern bool_t xdr_ufsd_fsck_state_t();
239 extern bool_t xdr_ufsd_log_data_t();
240 extern bool_t xdr_ufsd_log_msg_t();
241 extern bool_t xdr_ufsd_msg_vardata_t();
242 extern bool_t xdr_ufsd_msg_t();
```

```
244 #endif /* K&R C */
```

```
206 #ifdef __cplusplus
207 }
```

unchanged\_portion\_omitted

new/usr/src/uts/common/sys/fs/ufs\_trans.h

1

```
*****
15745 Sat Aug  2 23:27:21 2014
new/usr/src/uts/common/sys/fs/ufs_trans.h
remove support for non-ANSI compilation
*****
1 /*
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _SYS_FS_UFS_TRANS_H
30 #define _SYS_FS_UFS_TRANS_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 #include      <sys/types.h>
37 #include      <sys/cred.h>
38 #include      <sys/fs/ufs_fs.h>

40 /*
41  * Types of deltas
42  */
43 typedef enum delta_type {
44     DT_NONE,      /* 0 no assigned type */
45     DT_SB,        /* 1 superblock */
46     DT_CG,        /* 2 cylinder group */
47     DT_SI,        /* 3 summary info */
48     DT_AB,        /* 4 allocation block */
49     DT_ABZERO,    /* 5 a zero'ed allocation block */
50     DT_DIR,       /* 6 directory */
51     DT_INODE,     /* 7 inode */
52     DT_FBI,       /* 8 fbiwrite */
53     DT_QR,        /* 9 quota record */
54     DT_COMMIT,    /* 10 commit record */
55     DT_CANCEL,    /* 11 cancel record */
56     DT_BOT,       /* 12 begin transaction */
57     DT_EOT,       /* 13 end transaction */
58     DT_UD,        /* 14 userdata */
59     DT_SUD,       /* 15 userdata found during log scan */

```

new/usr/src/uts/common/sys/fs/ufs\_trans.h

2

```
60     DT_SHAD,      /* 16 data for a shadow inode */
61     DT_MAX,       /* 17 maximum delta type */
62 } delta_t;
        unchanged_portion_omitted
233 /*
234  * record a delta
235  */
236 #define TRANS_DELTA(ufsvfsp, mof, nb, dtyp, func, arg) \
237     if (TRANS_ISTRANS(ufsvfsp)) \
238         top_delta(ufsvfsp, (offset_t)(mof), nb, dtyp, func, arg)

240 /*
241  * cancel a delta
242  */
243 #define TRANS_CANCEL(ufsvfsp, mof, nb, flags) \
244     if (TRANS_ISTRANS(ufsvfsp)) \
245         top_cancel(ufsvfsp, (offset_t)(mof), nb, flags)

246 /*
247  * log a delta
248  */
249 #define TRANS_LOG(ufsvfsp, va, mof, nb, buf, bufsz) \
250     if (TRANS_ISTRANS(ufsvfsp)) \
251         top_log(ufsvfsp, va, (offset_t)(mof), nb, buf, bufsz)

252 /*
253  * check if a range is being canceled (converting from metadata into userdata)
254  */
255 #define TRANS_ISCANCEL(ufsvfsp, mof, nb) \
256     ((TRANS_ISTRANS(ufsvfsp)) ? \
257         top_iscancel(ufsvfsp, (offset_t)(mof), nb) : 0)

258 /*
259  * put the log into error state
260  */
261 #define TRANS_SETERROR(ufsvfsp) \
262     if (TRANS_ISTRANS(ufsvfsp)) \
263         top_seterror(ufsvfsp)

264 /*
265  * check if device has had an error
266  */
267 #define TRANS_ISERROR(ufsvfsp) \
268     ((TRANS_ISTRANS(ufsvfsp)) ? \
269         ufsvsp->vfs_log->un_flags & LDL_ERROR : 0)

271 /*
272  * The following macros provide a more readable interface to TRANS_DELTA
273  */
274 #define TRANS_BUF(ufsvfsp, vof, nb, bp, type) \
275     TRANS_DELTA(ufsvfsp, \
276         ldbtob(bp->b_blkno) + (offset_t)(vof), nb, type, \
277         ufs_trans_push_buf, bp->b_blkno)

279 #define TRANS_BUF_ITEM_L28(ufsvfsp, item, base, bp, type) \
280     TRANS_BUF(ufsvfsp, \
281         ((uintptr_t)&(item) & ~(128 - 1)) - (uintptr_t)(base), 128, bp, type)

283 #define TRANS_INODE(ufsvfsp, ip) \
284     TRANS_DELTA(ufsvfsp, ip->i_doff, sizeof (struct dinode), \
285         DT_INODE, ufs_trans_push_inode, ip->i_number)

287 /*
288  * If ever parts of an inode except the timestamps are logged using
289  * this macro (or any other technique), bootloader logging support must
290  * be made aware of these changes.
291  */
292 #define TRANS_INODE_DELTA(ufsvfsp, vof, nb, ip) \
293     TRANS_DELTA(ufsvfsp, (ip->i_doff + (offset_t)(vof)), \
294         nb, DT_INODE, ufs_trans_push_inode, ip->i_number)

```

```

296 #define TRANS_INODE_TIMES(ufsvfsp, ip) \
297     TRANS_INODE_DELTA(ufsvfsp, (caddr_t)&ip->i_atime - (caddr_t)&ip->i_ic, \
298         sizeof (struct timeval32) * 3, ip)
300 /*
301  * Check if we need to log cylinder group summary info.
302  */
303 #define TRANS_SI(ufsvfsp, fs, cg) \
304     if (TRANS_ISTRANS(ufsvfsp) \
305         if (ufsvfsp->vfs_nolog_si) \
306             fs->fs_si = FS_SI_BAD; \
307         else \
308             TRANS_DELTA(ufsvfsp, \
309                 ldbtob(fsbtodb(fs, fs->fs_csaddr)) + \
310                 ((caddr_t)&fs->fs_cs(fs, cg) - \
311                 (caddr_t)fs->fs_u.fs_csp), \
312                 sizeof (struct csum), DT_SI, \
313                 ufs_trans_push_si, cg)
315 #define TRANS_DIR(ip, offset) \
316     (TRANS_ISTRANS(ip->i_ufsvfs) ? ufs_trans_dir(ip, offset) : 0)
318 #define TRANS_QUOTA(dqp) \
319     if (TRANS_ISTRANS(dqp->dq_ufsvfsp) \
320         ufs_trans_quota(dqp);
322 #define TRANS_DQRELE(ufsvfsp, dqp) \
323     if (TRANS_ISTRANS(ufsvfsp) && \
324         ((curthread->t_flag & T_DONTBLOCK) == 0)) { \
325         ufs_trans_dqrele(dqp); \
326     } else { \
327         rw_enter(&ufsvfsp->vfs_dqrwlock, RW_READER); \
328         dqrele(dqp); \
329         rw_exit(&ufsvfsp->vfs_dqrwlock); \
330     }
332 #define TRANS_ITRUNC(ip, length, flags, cr) \
333     ufs_trans_itrunc(ip, length, flags, cr);
335 #define TRANS_WRITE_RESV(ip, uiop, ulp, resvp, residp) \
336     if ((TRANS_ISTRANS(ip->i_ufsvfs) != NULL) && (ulp != NULL)) \
337         ufs_trans_write_resv(ip, uiop, resvp, residp);
339 #define TRANS_WRITE(ip, uiop, ioflag, err, ulp, cr, resv, resid) \
340     if ((TRANS_ISTRANS(ip->i_ufsvfs) != NULL) && (ulp != NULL)) \
341         err = ufs_trans_write(ip, uiop, ioflag, cr, resv, resid); \
342     else \
343         err = wrrip(ip, uiop, ioflag, cr);
345 /*
346  * These functions "wrap" functions that are not VOP or VFS
347  * entry points but must still use the TRANS_BEGIN/TRANS_END
348  * protocol
349  */
350 #define TRANS_SBUPDATE(ufsvfsp, vfsp, topid) \
351     ufs_trans_sbupdate(ufsvfsp, vfsp, topid)
352 #define TRANS_SYNCIP(ip, bflags, iflag, topid) \
353     ufs_syncip(ip, bflags, iflag, topid)
354 #define TRANS_SBWRITE(ufsvfsp, topid) ufs_trans_sbwrite(ufsvfsp, topid)
355 #define TRANS_IUPDAT(ip, waitfor) ufs_trans_iupdat(ip, waitfor)
357 #ifdef DEBUG
358 /*
359  * Test/Debug ops
360  * The following ops maintain the metadata map.

```

```

361  * The metadata map is a debug/test feature.
362  * These ops are *not* used in the production product.
363  */
365 /*
366  * Set a flag if meta data checking.
367  */
368 #define TRANS_DOMATAMAP(ufsvfsp) \
369     ufsvsp->vfs_domatamap = \
370     (TRANS_ISTRANS(ufsvfsp) && \
371     (ufsvfsp->vfs_log->un_debug & MT_MATAMAP))
373 #define TRANS_MATA_IGET(ufsvfsp, ip) \
374     if (ufsvfsp->vfs_domatamap) \
375         ufs_trans_mata_iget(ip)
377 #define TRANS_MATA_FREE(ufsvfsp, mof, nb) \
378     if (ufsvfsp->vfs_domatamap) \
379         ufs_trans_mata_free(ufsvfsp, (offset_t)(mof), nb)
381 #define TRANS_MATA_ALLOC(ufsvfsp, ip, bno, size, zero) \
382     if (ufsvfsp->vfs_domatamap) \
383         ufs_trans_mata_alloc(ufsvfsp, ip, bno, size, zero)
385 #define TRANS_MATA_MOUNT(ufsvfsp) \
386     if (ufsvfsp->vfs_domatamap) \
387         ufs_trans_mata_mount(ufsvfsp)
389 #define TRANS_MATA_UMOUNT(ufsvfsp) \
390     if (ufsvfsp->vfs_domatamap) \
391         ufs_trans_mata_umount(ufsvfsp)
393 #define TRANS_MATA_SI(ufsvfsp, fs) \
394     if (ufsvfsp->vfs_domatamap) \
395         ufs_trans_mata_si(ufsvfsp, fs)
397 #define TRANS_MATAADD(ufsvfsp, mof, nb) \
398     top_mataadd(ufsvfsp, (offset_t)(mof), nb)
400 #else /* !DEBUG */
402 #define TRANS_DOMATAMAP(ufsvfsp)
403 #define TRANS_MATA_IGET(ufsvfsp, ip)
404 #define TRANS_MATA_FREE(ufsvfsp, mof, nb)
405 #define TRANS_MATA_ALLOC(ufsvfsp, ip, bno, size, zero)
406 #define TRANS_MATA_MOUNT(ufsvfsp)
407 #define TRANS_MATA_UMOUNT(ufsvfsp)
408 #define TRANS_MATA_SI(ufsvfsp, fs)
409 #define TRANS_MATAADD(ufsvfsp, mof, nb)
411 #endif /* !DEBUG */
413 #include <sys/fs/ufs_quota.h>
414 #include <sys/fs/ufs_lockfs.h>
415 /*
416  * identifies the type of operation passed into TRANS_BEGIN/END
417  */
418 #define TOP_SYNC (0x00000001)
419 #define TOP_ASYNC (0x00000002)
420 #define TOP_SYNC_FORCED (0x00000004) /* forced sync transaction */
421 /*
422  * estimated values
423  */
424 #define HEADERSIZE (128)
425 #define ALLOCSIZE (160)
426 #define INODESIZE (sizeof (struct dinode) + HEADERSIZE)

```

```

427 #define SIZESB ((sizeof (struct fs)) + HEADERSIZE)
428 #define SIZEDIR (DIRBLKSIZ + HEADERSIZE)
429 /*
430  * calculated values
431 */
432 #define SIZECG(IP) ((IP)->i_fs->fs_cgsize + HEADERSIZE)
433 #define FRAGSIZE(IP) ((IP)->i_fs->fs_fsize + HEADERSIZE)
434 #define ACLSIZE(IP) (((IP)->i_ufsvfs->vfs_maxacl + HEADERSIZE) + \
435     INODESIZE)
436 #define MAXACLSIZE ((MAX_ACL_ENTRIES << 1) * sizeof (aclent_t))
437 #define DIRSIZE(IP) (INODESIZE + (4 * ALLOCSIZE) + \
438     (IP)->i_fs->fs_fsize + HEADERSIZE)
439 #define QUOTASIZE sizeof (struct dqquot) + HEADERSIZE
440 /*
441  * size calculations
442 */
443 #define TOP_CREATE_SIZE(IP) \
444     (ACLSIZE(IP) + SIZECG(IP) + DIRSIZE(IP) + INODESIZE)
445 #define TOP_REMOVE_SIZE(IP) \
446     DIRSIZE(IP) + SIZECG(IP) + INODESIZE + SIZESB
447 #define TOP_LINK_SIZE(IP) \
448     DIRSIZE(IP) + INODESIZE
449 #define TOP_RENAME_SIZE(IP) \
450     DIRSIZE(IP) + DIRSIZE(IP) + SIZECG(IP)
451 #define TOP_MKDIR_SIZE(IP) \
452     DIRSIZE(IP) + INODESIZE + DIRSIZE(IP) + INODESIZE + FRAGSIZE(IP) + \
453     SIZECG(IP) + ACLSIZE(IP)
454 #define TOP_SYMLINK_SIZE(IP) \
455     DIRSIZE(IP) + INODESIZE + INODESIZE + SIZECG(IP)
456 #define TOP_GETPAGE_SIZE(IP) \
457     ALLOCSIZE + ALLOCSIZE + ALLOCSIZE + INODESIZE + SIZECG(IP)
458 #define TOP_SYNCIP_SIZE INODESIZE
459 #define TOP_READ_SIZE INODESIZE
460 #define TOP_RMDIR_SIZE (SIZESB + (INODESIZE * 2) + SIZEDIR)
461 #define TOP_SETQUOTA_SIZE(FS) ((FS)->fs_bsize << 2)
462 #define TOP_QUOTA_SIZE (QUOTASIZE)
463 #define TOP_SETSECATTR_SIZE(IP) (MAXACLSIZE)
464 #define TOP_IUPDAT_SIZE(IP) INODESIZE + SIZECG(IP)
465 #define TOP_SBUPDATE_SIZE (SIZESB)
466 #define TOP_SBWRITE_SIZE (SIZESB)
467 #define TOP_PUTPAGE_SIZE(IP) (INODESIZE + SIZECG(IP))
468 #define TOP_SETATTR_SIZE(IP) (SIZECG(IP) + INODESIZE + QUOTASIZE + \
469     ACLSIZE(IP))
470 #define TOP_IFREE_SIZE(IP) (SIZECG(IP) + INODESIZE + QUOTASIZE)
471 #define TOP_MOUNT_SIZE (SIZESB)
472 #define TOP_COMMIT_SIZE (0)

474 /*
475  * The minimum log size is 1M. So we will allow 1 fs operation to
476  * reserve at most 512K of log space.
477 */
478 #define TOP_MAX_RESV (512 * 1024)

481 /*
482  * ufs trans function prototypes
483 */
484 #if defined(_KERNEL)
484 #if defined(_KERNEL) && defined(__STDC__)

486 extern int ufs_trans_hlock();
487 extern void ufs_trans_onerror();
488 extern int ufs_trans_push_inode(struct ufsvfs *, delta_t, ino_t);
489 extern int ufs_trans_push_buf(struct ufsvfs *, delta_t, daddr_t);
490 extern int ufs_trans_push_si(struct ufsvfs *, delta_t, int);
491 extern void ufs_trans_sbupdate(struct ufsvfs *, struct vfs *,

```

```

492     top_t);
493 extern void ufs_trans_sbwrite(struct ufsvfs *, top_t);
494 extern void ufs_trans_iupdat(struct inode *, int);
495 extern void ufs_trans_mata_mount(struct ufsvfs *);
496 extern void ufs_trans_mata_umount(struct ufsvfs *);
497 extern void ufs_trans_mata_si(struct ufsvfs *, struct fs *);
498 extern void ufs_trans_mata_iget(struct inode *);
499 extern void ufs_trans_mata_free(struct ufsvfs *, offset_t, off_t);
500 extern void ufs_trans_mata_alloc(struct ufsvfs *, struct inode *,
501     daddr_t, ulong_t, int);
502 extern int ufs_trans_dir(struct inode *, off_t);
503 extern void ufs_trans_quota(struct dqquot *);
504 extern void ufs_trans_dqrele(struct dqquot *);
505 extern int ufs_trans_itrunc(struct inode *, u_offset_t, int,
506     cred_t *);
507 extern int ufs_trans_write(struct inode *, struct uio *, int,
508     cred_t *, int, long);
509 extern void ufs_trans_write_resv(struct inode *, struct uio *,
510     int *, int *);
511 extern int ufs_trans_check(dev_t);
512 extern void ufs_trans_redev(dev_t odev, dev_t ndev);
513 extern void ufs_trans_trunc_resv(struct inode *, u_offset_t, int *,
514     u_offset_t *);

516 /*
517  * transaction prototypes
518 */
519 void lufs_unsnarf(struct ufsvfs *ufsvfsp);
520 int lufs_snarf(struct ufsvfs *ufsvfsp, struct fs *fs, int ronly);
521 void top_delta(struct ufsvfs *ufsvfsp, offset_t mof, off_t nb, delta_t dtyp,
522     int (*func)(), ulong_t arg);
523 void top_cancel(struct ufsvfs *ufsvfsp, offset_t mof, off_t nb, int flags);
524 int top_iscancel(struct ufsvfs *ufsvfsp, offset_t mof, off_t nb);
525 void top_seterror(struct ufsvfs *ufsvfsp);
526 int top_iserror(struct ufsvfs *ufsvfsp);
527 void top_begin_sync(struct ufsvfs *ufsvfsp, top_t topid, ulong_t size,
528     int *error);
529 int top_begin_async(struct ufsvfs *ufsvfsp, top_t topid, ulong_t size,
530     int tryasync);
531 void top_end_sync(struct ufsvfs *ufsvfsp, int *ep, top_t topid,
532     ulong_t size);
533 void top_end_async(struct ufsvfs *ufsvfsp, top_t topid, ulong_t size);
534 void top_log(struct ufsvfs *ufsvfsp, char *va, offset_t vamof, off_t nb,
535     daddr_t buf, uint32_t bufsz);
536 void top_mataadd(struct ufsvfs *ufsvfsp, offset_t mof, off_t nb);
537 void top_mataidel(struct ufsvfs *ufsvfsp, offset_t mof, off_t nb);
538 void top_mataclr(struct ufsvfs *ufsvfsp);

541 #endif /* defined(_KERNEL) */
541 #endif /* defined(_KERNEL) && defined(__STDC__) */

543 #ifdef __cplusplus
544 }

```

unchanged\_portion\_omitted



new/usr/src/uts/common/sys/fstyp.h

1

\*\*\*\*\*

1488 Sat Aug 2 23:27:21 2014

new/usr/src/uts/common/sys/fstyp.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _SYS_FSTYP_H
30 #define _SYS_FSTYP_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 11.6 */

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 #ifndef FSTYPSZ
37 #define FSTYPSZ      16      /* max size of fs identifier */
38 #endif

40 /*
41  * Opcodes for the sysfs() system call.
42  */
43 #define GETFSIND      1      /* translate fs identifier to fstype index */
44 #define GETFSTYP      2      /* translate fstype index to fs identifier */
45 #define GETNFSYPTYP      3      /* return the number of fstypes */

47 #if !defined(_KERNEL)
46 #if defined(__STDC__) && !defined(_KERNEL)
48 int sysfs(int, ...);
49 #endif

51 #ifdef __cplusplus
52 }

```

unchanged\_portion\_omitted

new/usr/src/uts/common/sys/hotplug/hpcsvc.h

1

```
*****
2131 Sat Aug  2 23:27:22 2014
new/usr/src/uts/common/sys/hotplug/hpcsvc.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */

23 /*
24 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
25 *
26 * Copyright (c) 1999-2000 by Sun Microsystems, Inc.
27 * All rights reserved.
28 */

30 #ifndef _SYS_HOTPLUG_HPCSVCS_H
31 #define _SYS_HOTPLUG_HPCSVCS_H

32 #pragma ident      "%Z%M %I%      %E% SMI"

33 #include <sys/hotplug/hpctrl.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

37 /* flags for event handling */
38 #define HPC_EVENT_NORMAL      0          /* normal, queued event handling */
39 #define HPC_EVENT_SYNCHRONOUS 1          /* unqueued sync. event handling */

40 #ifdef __STDC__
41 extern int hpc_nexus_register_bus(dev_info_t *dip,
42     int (* callback)(dev_info_t *dip, hpc_slot_t handle,
43     hpc_slot_info_t *slot_info, int slot_state),
44     uint_t flags);
45 extern int hpc_nexus_unregister_bus(dev_info_t *dip);
46 extern int hpc_nexus_connect(hpc_slot_t handle, void *data, uint_t flags);
47 extern int hpc_nexus_disconnect(hpc_slot_t handle, void *data, uint_t flags);
48 extern int hpc_nexus_insert(hpc_slot_t handle, void *data, uint_t flags);
49 extern int hpc_nexus_remove(hpc_slot_t handle, void *data, uint_t flags);
50 extern int hpc_nexus_control(hpc_slot_t handle, int request, caddr_t arg);
51 extern int hpc_install_event_handler(hpc_slot_t handle, uint_t event_mask,
52     int (*event_handler)(caddr_t, uint_t), caddr_t arg);
53 extern int hpc_remove_event_handler(hpc_slot_t handle);
54 #else
55 extern int hpc_nexus_register_bus();
56 extern int hpc_nexus_unregister_bus();
57 #endif
58 #endif
```

new/usr/src/uts/common/sys/hotplug/hpcsvc.h

2

```
60 extern int hpc_nexus_connect();
61 extern int hpc_nexus_disconnect();
62 extern int hpc_nexus_insert();
63 extern int hpc_nexus_remove();
64 extern int hpc_nexus_control();
65 extern int hpc_install_event_handler();
66 #endif

67 #ifdef __cplusplus
68 }
69 #endif
70 #endif
```

```

*****
11833 Sat Aug  2 23:27:22 2014
new/usr/src/uts/common/sys/hotplug/hpctrl.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _SYS_HOTPLUG_HPCTRL_H
30 #define _SYS_HOTPLUG_HPCTRL_H

32 #pragma ident      "%Z%M% %I%      %E% SMI"

32 /*
33  * *****
34  * Hot Plug Controller interfaces for PCI and CompactPCI platforms.
35  * *****
36  */
37 #include <sys/types.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 /*
44  * Type definition for slot handle. This is an opaque pointer
45  * created by the HPS framework.
46  */
47 typedef void *hpc_slot_t;

49 #define HPC_SLOT_OPS_VERSION      0

51 /*
52  * slot operations structure definition.
53  *
54  *      Function                Description
55  *      -----                -
56  *      xxx_op_connect          CONNECT the slot to the bus to enable
57  *                              access to the adapter.
58  *      xxx_op_disconnect       DISCONNECT the slot from the bus. For PCI,
59  *                              this disables the power to the slot.

```

```

60  *      xxx_op_insert           Prepare the slot for card insertion. This
61  *                              may not be applicable for all bus types.
62  *      xxx_op_remove          Prepare the slot for card removal. This
63  *                              may not be applicable for all bus types.
64  *      xxx_op_control         Perform misc. commands to control the
65  *                              LEDs, get status information, etc.
66  */
67 typedef struct hpc_slot_ops {
68     int     hpc_version;                /* HPC_SLOT_OPS_VERSION */
69     int     (*hpc_connect)(caddr_t ops_arg, hpc_slot_t slot_hdl,
70                          void *data, uint_t flags);
71     int     (*hpc_op_disconnect)(caddr_t ops_arg, hpc_slot_t slot_hdl,
72                                 void *data, uint_t flags);
73     int     (*hpc_op_insert)(caddr_t ops_arg, hpc_slot_t slot_hdl,
74                             void *data, uint_t flags);
75     int     (*hpc_op_remove)(caddr_t ops_arg, hpc_slot_t slot_hdl,
76                             void *data, uint_t flags);
77     int     (*hpc_op_control)(caddr_t ops_arg, hpc_slot_t slot_hdl,
78                              int request, caddr_t arg);
79 } hpc_slot_ops_t;
80 #endif
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1000 #endif

```

```

224 *      HPC_EVENT_SLOT_HEALTHY_OK HEALTHY# signal on this slot is OK now.
225 *      HPC_EVENT_SLOT_CONFIGURE Configure the occupant in the slot.
226 *      HPC_EVENT_SLOT_UNCONFIGURE Unconfigure the occupant in the slot.
227 */
228 #define HPC_EVENT_SLOT_INSERTION      0x00000001
229 #define HPC_EVENT_SLOT_REMOVAL        0x00000002
230 #define HPC_EVENT_SLOT_POWER_ON       0x00000004
231 #define HPC_EVENT_SLOT_POWER_OFF      0x00000008
232 #define HPC_EVENT_SLOT_LATCH_OPEN     0x00000010
233 #define HPC_EVENT_SLOT_LATCH_SHUT     0x00000020
234 #define HPC_EVENT_SLOT_ENUM           0x00000040
235 #define HPC_EVENT_SLOT_NOT_HEALTHY    0x00000080
236 #define HPC_EVENT_SLOT_HEALTHY_OK     0x00000100
237 #define HPC_EVENT_SLOT_CONFIGURE      0x00000200
238 #define HPC_EVENT_SLOT_UNCONFIGURE    0x00000400
239 #define HPC_EVENT_SLOT_BLUE_LED_ON    0x00000800
240 #define HPC_EVENT_SLOT_BLUE_LED_OFF   0x00001000
241 #define HPC_EVENT_CLEAR_ENUM          0x00002000
242 #define HPC_EVENT_PROCESS_ENUM        0x00004000
243 #define HPC_EVENT_ENABLE_ENUM         0x00008000
244 #define HPC_EVENT_DISABLE_ENUM        0x00010000
245 #define HPC_EVENT_BUS_ENUM            HPC_EVENT_SLOT_ENUM
246 #define HPC_EVENT_SLOT_ATTENTION     0x00020000
247 #define HPC_EVENT_SLOT_POWER_FAULT    0x00040000

249 /*
250 * return values for errors from HPS framework interfaces.
251 */
252 #define HPC_SUCCESS                    0x0
253 #define HPC_ERR_INVALID                0x1 /* invalid arguments */
254 #define HPC_ERR_SLOT_NOTREGISTERED     0x2 /* slot is not registered */
255 #define HPC_ERR_SLOT_DUPLICATE         0x3 /* slot is already registered */
256 #define HPC_ERR_BUS_NOTREGISTERED     0x4 /* slot is not registered */
257 #define HPC_ERR_BUS_DUPLICATE         0x5 /* slot is already registered */
258 #define HPC_ERR_NOTSUPPORTED          0x6 /* operation not supported */
259 #define HPC_ERR_FAILED                 0x7 /* operation failed */

261 /* return values for event notifications */
262 #define HPC_EVENT_CLAIMED              0x10 /* HPC event is claimed */
263 #define HPC_EVENT_UNCLAIMED           -1 /* HPC event is not claimed */

265 /* definitions for slot (un)registration events */
266 #define HPC_SLOT_ONLINE                 1 /* slot is registered */
267 #define HPC_SLOT_OFFLINE               2 /* slot is unregistered */

269 /*
270 * function prototype definitions for interfaces between HPC driver
271 * and Hot Plug Services framework.
272 */
273 #ifdef __STDC__
274 extern int hpc_slot_register(dev_info_t *dip, char *bus_path,
275                             hpc_slot_info_t *slot_info, hpc_slot_t *slot_hdl,
276                             hpc_slot_ops_t *slot_ops, caddr_t ops_arg, uint_t flags);
277 extern int hpc_slot_unregister(hpc_slot_t *slot_hdl);
278 extern struct hpc_slot_ops *hpc_alloc_slot_ops(int sleepflag);
279 extern void hpc_free_slot_ops(hpc_slot_ops_t *ops);
280 extern int hpc_slot_event_notify(hpc_slot_t slot_hdl, uint_t event,
281                                 uint_t flags);
282 extern boolean_t hpc_bus_registered(hpc_slot_t slot_hdl);
283 #else
284 extern int hpc_slot_register();
285 extern int hpc_slot_unregister();
286 extern struct hpc_slot_ops *hpc_alloc_slot_ops();
287 extern void hpc_free_slot_ops();
288 extern int hpc_slot_event_notify();
289 extern boolean_t hpc_bus_registered();

```

```

290 #endif /* __STDC__ */

283 /*
284 * *****
285 * Implementation specific data structures and definitions. These are
286 * the private interfaces between cfgadm plug-in and the PCI nexus
287 * driver.
288 * *****
289 */

291 /*
292 * Data structure used for DEVCTL_AP_CONTROL ioctl on the AP.
293 */
294 struct hpc_control_data {
295     uint_t cmd; /* HPC_CTRL_* command */
296     void *data; /* pointer to data that is exchanged */
297 };

```

unchanged portion omitted

new/usr/src/uts/common/sys/instance.h

1

```
*****
4557 Sat Aug 2 23:27:22 2014
new/usr/src/uts/common/sys/instance.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23  *
24  * Copyright (c) 1992, 2010, Oracle and/or its affiliates. All rights reserved.
25  */

27 #ifndef _SYS_INSTANCE_H
28 #define _SYS_INSTANCE_H

30 /*
31  * Instance number assignment data structures
32  */

34 #include <sys/types.h>
35 #include <sys/param.h>
36 #include <sys/dditypes.h>
37 #include <sys/list.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 #define INSTANCE_FILE "/etc/path_to_inst"
44 #define INSTANCE_FILE_SUFFIX ".old"

47 #if defined(_KERNEL) || defined(_KMEMUSER)

49 /*
50  * The form of a node; These form a tree that is parallel to the
51  * dev_info tree, but always fully populated. The tree is rooted in
52  * the in_softstate struct (e_ddi_inst_state.ins_root).
53  *
54  * Each node has one or more in_drv entries hanging from it.
55  * (It will have more than one if it has been driven by more than one driver
56  * over its lifetime. This can happen due to a generic name
57  * or to a "compatible" name giving a more specific driver).
58  */

60 typedef struct in_node {
61     char *in_node_name; /* devi_node_name of this node */
```

new/usr/src/uts/common/sys/instance.h

2

```
62     char *in_unit_addr; /* address part of name */
63     struct in_node *in_child; /* children of this node */
64     struct in_node *in_sibling; /* "peers" of this node */
65     struct in_drv *in_drivers; /* drivers bound to this node */
66     struct in_node *in_parent; /* parent of this node */
67     dev_info_t *in_devi; /* corresponding devinfo */
68 } in_node_t;
unchanged portion omitted

83 /*
84  * Values for in_state
85  */
86 #define IN_PROVISIONAL 0x1 /* provisional instance number assigned */
87 #define IN_PERMANENT 0x2 /* instance number has been confirmed */
88 #define IN_UNKNOWN 0x3 /* instance number not yet assigned */
89 #define IN_BORROWED 0x4 /* instance number from alias */

92 /*
93  * Guard for path to instance file
94  */
95 #define PTI_GUARD "\n#\tCaution! This file contains critical kernel state\n#\n"

98 /*
99  * special value for dn_instance
100 */
101 #define IN_SEARCHME (-1)

103 #endif /* defined(_KERNEL) || defined(_KMEMUSER) */

105 #ifdef _KERNEL
106 void e_ddi_instance_init(void);
107 uint_t e_ddi_assign_instance(dev_info_t *dip);
108 void e_ddi_keep_instance(dev_info_t *dip);
109 void e_ddi_free_instance(dev_info_t *dip, char *addr);
110 int e_ddi_instance_majorinstance_to_path(major_t major,
111     uint_t instance, char *path);
112 void e_ddi_unorphan_instance_nos(void);
113 void e_ddi_enter_instance(void);
114 void e_ddi_exit_instance(void);
115 in_node_t *e_ddi_instance_root(void);
116 int e_ddi_instance_is_clean(void);
117 void e_ddi_instance_set_clean(void);

119 /* Platform instance override functions */
120 uint_t impl_assign_instance(dev_info_t *dip);
121 int impl_keep_instance(dev_info_t *dip);
122 int impl_free_instance(dev_info_t *dip);

124 /* walk the instance tree */
125 int e_ddi_walk_instances(int (*)(const char *,
126     in_node_t *, in_drv_t *, void *), void *);

128 /* for DDI-MP */
129 in_node_t *e_ddi_path_to_instance(char *path);
130 void e_ddi_borrow_instance(dev_info_t *cdip, in_node_t *cnp);
131 void e_ddi_return_instance(dev_info_t *cdip, char *addr, in_node_t *cnp);

133 /* return values from e_ddi_walk_instances callback */
134 #define INST_WALK_CONTINUE 0
135 #define INST_WALK_TERMINATE 1

138 #else /* _KERNEL */
137 #ifdef __STDC__
```

```
139 extern int inst_sync(char *pathname, int flags);
139 #else
140 extern int inst_sync();
141 #endif /* __STDC__ */
140 #endif /* _KERNEL */

142 #define INST_SYNC_IF_REQUIRED 0
143 #define INST_SYNC_ALWAYS 1

145 #ifdef __cplusplus
146 }
_____ unchanged_portion_omitted
```

new/usr/src/uts/common/sys/int\_const.h

1

```
*****
3609 Sat Aug  2 23:27:22 2014
new/usr/src/uts/common/sys/int_const.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _SYS_INT_CONST_H
30 #define _SYS_INT_CONST_H

32 /*
33  * This file, <sys/int_const.h>, is part of the Sun Microsystems implementation
34  * of <inttypes.h> as proposed in the ISO/JTC1/SC22/WG14 C committee's working
35  * draft for the revision of the current ISO C standard, ISO/IEC 9899:1990
36  * Programming language - C.
37  *
38  * Programs/Modules should not directly include this file. Access to the
39  * types defined in this file should be through the inclusion of one of the
40  * following files:
41  *
42  *     <sys/inttypes.h>         Provides the Kernel and Driver appropriate
43  *                             components of <inttypes.h>.
44  *
45  *     <inttypes.h>           For use by applications.
46  *
47  * See these files for more details.
48  *
49  * Use at your own risk. This file will track the evolution of the revision
50  * of the current ISO C standard. As of February 1996, the committee is
51  * squarely behind the fixed sized types.
52  */

54 #include <sys/feature_tests.h>

56 #ifdef __cplusplus
57 extern "C" {
58 #endif
```

new/usr/src/uts/common/sys/int\_const.h

2

```
60 /*
61  * Constants
62  *
63  * The following macros create constants of the types defined in
64  * <sys/int_types.h>. The intent is that:
65  *     Constants defined using these macros have a specific size and
66  *     signedness. The suffix used for int64_t and uint64_t (ll and ull)
67  *     are for examples only. Implementations are permitted to use other
68  *     suffixes.
69  *
70  * The "CSTYLED" comments are flags to an internal code style analysis tool
71  * telling it to silently accept the line which follows. This internal
72  * standard requires a space between arguments, but the historical,
73  * non-ANSI-C ``method'' of concatenation can't tolerate those spaces.
74  */
75 #ifdef __STDC__
76 #define __CONCAT__(A,B) A ## B
77 #else
78 #define __CONCAT__(A,B) A/**/B
79 #endif

83 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
84 #define INT8_C(c) (c)
85 #endif
86 #define INT16_C(c) (c)
87 #define INT32_C(c) (c)
88 #ifdef _LP64
89 /* CSTYLED */
90 #define INT64_C(c) __CONCAT__(c,l)
91 #else /* _ILP32 */
92 #if defined(_LONGLONG_TYPE)
93 /* CSTYLED */
94 #define INT64_C(c) __CONCAT__(c,ll)
95 #endif
96 #endif

97 /* CSTYLED */
98 #define UINT8_C(c) __CONCAT__(c,u)
99 /* CSTYLED */
100 #define UINT16_C(c) __CONCAT__(c,u)
101 /* CSTYLED */
102 #define UINT32_C(c) __CONCAT__(c,u)
103 #ifdef _LP64
104 #if defined(_LONGLONG_TYPE)
105 /* CSTYLED */
106 #define UINT64_C(c) __CONCAT__(c,ull)
107 #endif
108 #endif

109 #ifdef _LP64
110 /* CSTYLED */
111 #define INTMAX_C(c) __CONCAT__(c,l)
112 /* CSTYLED */
113 #define UINMAX_C(c) __CONCAT__(c,ul)
114 #else /* _ILP32 */
115 #if defined(_LONGLONG_TYPE)
116 /* CSTYLED */
117 #define INTMAX_C(c) __CONCAT__(c,ll)
118 /* CSTYLED */
119 #define UINMAX_C(c) __CONCAT__(c,ull)
120 #endif
121 #endif
```

new/usr/src/uts/common/sys/int\_const.h

3

```
119 #define INTMAX_C(c)      (c)
120 #define UINTMAX_C(c)    (c)
121 #endif
122 #endif

124 #ifdef __cplusplus
125 }
unchanged_portion_omitted
```



```

*****
8796 Sat Aug  2 23:27:22 2014
new/usr/src/uts/common/sys/int_fmtio.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 #ifndef _SYS_INT_FMTIO_H
30 #define _SYS_INT_FMTIO_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 /*
33 * This file, <sys/int_fmtio.h>, is part of the Sun Microsystems implementation
34 * of <inttypes.h> as defined by the ISO C Standard, ISO/IEC 9899:1999
35 * Programming language - C.
36 *
37 * ISO International Organization for Standardization.
38 *
39 * Programs/Modules should not directly include this file. Access to the
40 * types defined in this file should be through the inclusion of one of the
41 * following files:
42 *
43 *     <sys/inttypes.h>           Provides the Kernel and Driver appropriate
44 *                               components of <inttypes.h>.
45 *
46 *     <inttypes.h>              For use by applications.
47 *
48 * See these files for more details.
49 */

51 #include <sys/feature_tests.h>

53 #ifdef __cplusplus
54 extern "C" {
55 #endif

57 /*
58 * Formatted I/O
59 */

```

```

60 * The following macros can be used even when an implementation has not
61 * extended the printf/scanf family of functions.
62 *
63 * The form of the names of the macros is either "PRI" for printf specifiers
64 * or "SCN" for scanf specifiers, followed by the conversion specifier letter
65 * followed by the datatype size. For example, PRId32 is the macro for
66 * the printf d conversion specifier with the flags for 32 bit datatype.
67 *
68 * An example using one of these macros:
69 *
70 *     uint64_t u;
71 *     printf("u = %016" PRIx64 "\n", u);
72 *
73 * For the purpose of example, the definitions of the printf/scanf macros
74 * below have the values appropriate for a machine with 8 bit shorts, 16
75 * bit shorts, 32 bit ints, 32 or 64 bit longs depending on compilation
76 * mode, and 64 bit long longs.
77 */

79 /*
80 * fprintf macros for signed integers
81 */
82 #if defined(_KERNEL)
83 #define _MODF8  " "
84 #define _MODF16 " "
85 #else
86 #define _MODF8  "hh"
87 #define _MODF16 "h"
88 #endif

90 #define _PRId   "d"
91 #define _PRIi   "i"
92 #define _PRIo   "o"
93 #define _PRIu   "u"
94 #define _PRIx   "x"
95 #define _PRIX   "X"

97 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
97 #define PRId8      _MODF8 _PRId
98 #define PRIdLEAST8 PRId8
99 #define PRIdFAST8  PRId8
101 #endif
100 #define PRId16      _MODF16 _PRId
101 #define PRIdLEAST16 PRId16
102 #define PRId32      "d"
103 #define PRIdFAST16  PRId32
104 #define PRIdLEAST32 PRId32
105 #define PRIdFAST32  PRId32
106 #ifdef _LP64
107 #define PRId64      "ld"
108 #else /* _ILP32 */
109 #if defined(_LONGLONG_TYPE)
110 #define PRId64      "lld"
111 #endif
112 #endif
113 #ifdef PRId64
114 #define PRIdLEAST64 PRId64
115 #define PRIdFAST64  PRId64
116 #endif

120 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
118 #define PRIi8      _MODF8 _PRIi
119 #define PRIiLEAST8 PRIi8
120 #define PRIiFAST8  PRIi8
124 #endif
121 #define PRIi16      _MODF16 _PRIi

```

```

122 #define PRIiLEAST16      PRIi16
123 #define PRIi32           "i"
124 #define PRIiFAST16      PRIi32
125 #define PRIiLEAST32     PRIi32
126 #define PRIiFAST32     PRIi32
127 #ifndef _LP64
128 #define PRIi64           "li"
129 #else /* _ILP32 */
130 #if defined(_LONGLONG_TYPE)
131 #define PRIi64           "lli"
132 #endif
133 #endif
134 #ifndef PRIi64
135 #define PRIiLEAST64      PRIi64
136 #define PRIiFAST64      PRIi64
137 #endif

139 /*
140  * fprintf macros for unsigned integers
141  */

143 #define PRIo8             _MODF8 _PRIo
144 #define PRIoLEAST8      PRIo8
145 #define PRIoFAST8       PRIo8
146 #define PRIo16          _MODF16 _PRIo
147 #define PRIoLEAST16    PRIo16
148 #define PRIo32          "o"
149 #define PRIoFAST16     PRIo32
150 #define PRIoLEAST32    PRIo32
151 #define PRIoFAST32     PRIo32
152 #ifndef _LP64
153 #define PRIo64          "lo"
154 #else /* _ILP32 */
155 #if defined(_LONGLONG_TYPE)
156 #define PRIo64          "llo"
157 #endif
158 #endif
159 #ifndef PRIo64
160 #define PRIoLEAST64     PRIo64
161 #define PRIoFAST64     PRIo64
162 #endif

164 #define PRUi8            _MODF8 _PRIu
165 #define PRUiLEAST8      PRUi8
166 #define PRUiFAST8       PRUi8
167 #define PRUi16          _MODF16 _PRIu
168 #define PRUiLEAST16    PRUi16
169 #define PRUi32          "u"
170 #define PRUiFAST16     PRUi32
171 #define PRUiLEAST32    PRUi32
172 #define PRUiFAST32     PRUi32
173 #ifndef _LP64
174 #define PRUi64          "lu"
175 #else /* _ILP32 */
176 #if defined(_LONGLONG_TYPE)
177 #define PRUi64          "llu"
178 #endif
179 #endif
180 #ifndef PRUi64
181 #define PRUiLEAST64     PRUi64
182 #define PRUiFAST64     PRUi64
183 #endif

185 #define PRIx8            _MODF8 _PRIx
186 #define PRIxLEAST8      PRIx8
187 #define PRIxFAST8       PRIx8

```

```

188 #define PRIx16          _MODF16 _PRIx
189 #define PRIxLEAST16    PRIx16
190 #define PRIx32          "x"
191 #define PRIxFAST16     PRIx32
192 #define PRIxLEAST32    PRIx32
193 #define PRIxFAST32     PRIx32
194 #ifndef _LP64
195 #define PRIx64          "lx"
196 #else /* _ILP32 */
197 #if defined(_LONGLONG_TYPE)
198 #define PRIx64          "llx"
199 #endif
200 #endif
201 #ifndef PRIx64
202 #define PRIxLEAST64     PRIx64
203 #define PRIxFAST64     PRIx64
204 #endif

206 #define PRIX8            _MODF8 _PRIX
207 #define PRIXLEAST8      PRIX8
208 #define PRIXFAST8       PRIX8
209 #define PRIX16          _MODF16 _PRIX
210 #define PRIXLEAST16    PRIX16
211 #define PRIX32          "X"
212 #define PRIXFAST16     PRIX32
213 #define PRIXLEAST32    PRIX32
214 #define PRIXFAST32     PRIX32
215 #ifndef _LP64
216 #define PRIX64          "lX"
217 #else /* _ILP32 */
218 #if defined(_LONGLONG_TYPE)
219 #define PRIX64          "llX"
220 #endif
221 #endif
222 #ifndef PRIX64
223 #define PRIXLEAST64     PRIX64
224 #define PRIXFAST64     PRIX64
225 #endif

227 /*
228  * fprintf macros for pointers
229  */

231 #if defined(_LP64) || defined(_I32LPx)
232 #define PRIdPTR          "ld"
233 #define PRIiPTR          "li"
234 #define PRIoPTR          "lo"
235 #define PRUiPTR          "lu"
236 #define PRIxPTR          "lx"
237 #define PRIXPTR          "lX"
238 #else
239 #define PRIdPTR          "d"
240 #define PRIiPTR          "i"
241 #define PRIoPTR          "o"
242 #define PRUiPTR          "u"
243 #define PRIxPTR          "x"
244 #define PRIXPTR          "X"
245 #endif /* defined(_LP64) || defined(_I32LPx) */

247 /*
248  * fscanf macros for signed integers
249  */
254 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
250 #define SCNd8            "hhd"
251 #define SCNdLEAST8      SCNd8
252 #define SCNdFAST8       SCNd8

```

```

258 #endif
253 #define SCNd16          "hd"
254 #define SCNdLEAST16    SCNd16
255 #define SCNd32          "d"
256 #define SCNdFAST16     SCNd32
257 #define SCNdLEAST32    SCNd32
258 #define SCNdFAST32     SCNd32
259 #ifndef PRId64
260 #define SCNd64          PRId64
261 #define SCNdLEAST64    PRId64
262 #define SCNdFAST64     PRId64
263 #endif
264 #define SCNdPTR        PRIdPTR

272 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
266 #define SCNi8          "hhi"
267 #define SCNiLEAST8     SCNi8
268 #define SCNiFAST8      SCNi8
276 #endif
269 #define SCNi16         "hi"
270 #define SCNiLEAST16    SCNi16
271 #define SCNi32         "i"
272 #define SCNiFAST16     SCNi32
273 #define SCNiLEAST32    SCNi32
274 #define SCNiFAST32     SCNi32
275 #ifndef PRIi64
276 #define SCNi64         PRIi64
277 #define SCNiLEAST64    PRIi64
278 #define SCNiFAST64     PRIi64
279 #endif
280 #define SCNiPTR        PRIiPTR

282 /*
283  * fscanf macros for unsigned integers
284  */
285 #define SCNo8          "hho"
286 #define SCNoLEAST8     SCNo8
287 #define SCNoFAST8      SCNo8
288 #define SCNo16         "ho"
289 #define SCNoLEAST16    SCNo16
290 #define SCNo32         "o"
291 #define SCNoFAST16     SCNo32
292 #define SCNoLEAST32    SCNo32
293 #define SCNoFAST32     SCNo32
294 #ifndef PRIo64
295 #define SCNo64         PRIo64
296 #define SCNoLEAST64    PRIo64
297 #define SCNoFAST64     PRIo64
298 #endif
299 #define SCNoPTR        PRIoPTR

301 #define SCNu8          "hhu"
302 #define SCNuLEAST8     SCNu8
303 #define SCNuFAST8      SCNu8
304 #define SCNu16         "hu"
305 #define SCNuLEAST16    SCNu16
306 #define SCNu32         "u"
307 #define SCNuFAST16     SCNu32
308 #define SCNuLEAST32    SCNu32
309 #define SCNuFAST32     SCNu32
310 #ifndef PRIu64
311 #define SCNu64         PRIu64
312 #define SCNuLEAST64    PRIu64
313 #define SCNuFAST64     PRIu64
314 #endif
315 #define SCNuPTR        PRIuPTR

```

```

317 #define SCNx8          "hhx"
318 #define SCNxLEAST8     SCNx8
319 #define SCNxFAST8      SCNx8
320 #define SCNx16         "hx"
321 #define SCNxLEAST16    SCNx16
322 #define SCNx32         "x"
323 #define SCNxFAST16     SCNx32
324 #define SCNxLEAST32    SCNx32
325 #define SCNxFAST32     SCNx32
326 #ifndef PRIx64
327 #define SCNx64         PRIx64
328 #define SCNxLEAST64    PRIx64
329 #define SCNxFAST64     PRIx64
330 #endif
331 #define SCNxPTR        PRIxPTR

333 #define SCNX8          "hhX"
334 #define SCNXLEAST8     SCNX8
335 #define SCNXFAST8      SCNX8
336 #define SCNX16         "hX"
337 #define SCNXLEAST16    SCNX16
338 #define SCNX32         "X"
339 #define SCNXFAST16     SCNX32
340 #define SCNXLEAST32    SCNX32
341 #define SCNXFAST32     SCNX32
342 #ifndef PRIX64
343 #define SCNX64         PRIX64
344 #define SCNXLEAST64    PRIX64
345 #define SCNXFAST64     PRIX64
346 #endif
347 #define SCNXPTR        PRIXPTR

349 /*
350  * The following macros define I/O formats for intmax_t and uintmax_t.
351  */
352 #if !defined(_LP64) && defined(_LONGLONG_TYPE)
353 #define PRIdMAX         "lld"
354 #define PRIiMAX         "lli"
355 #define PRIoMAX         "llo"
356 #define PRImAX         "llx"
357 #define PRIuMAX         "llu"
358 #define PRIXMAX         "llX"
359 #else
360 #define PRIdMAX         "ld"
361 #define PRIiMAX         "li"
362 #define PRIoMAX         "lo"
363 #define PRImAX         "lx"
364 #define PRIuMAX         "lu"
365 #define PRIXMAX         "lX"
366 #endif /* !defined(_LP64) && defined(_LONGLONG_TYPE) */

368 #define SCNdMAX         PRIdMAX
369 #define SCNiMAX         PRIiMAX
370 #define SCNoMAX         PRIoMAX
371 #define SCNxMAX         PRImAX
372 #define SCNuMAX         PRIuMAX
373 #define SCNXMAX         PRIXMAX

375 #ifndef __cplusplus
376 }
_____unchanged_portion_omitted_____

```

```

*****
7501 Sat Aug 2 23:27:22 2014
new/usr/src/uts/common/sys/int_limits.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 #ifndef _SYS_INT_LIMITS_H
30 #define _SYS_INT_LIMITS_H

30 #pragma ident "%Z%M% %I% %E% SMI"

32 /*
33 * This file, <sys/int_limits.h>, is part of the Sun Microsystems implementation
34 * of <inttypes.h> as defined in the ISO C standard, ISO/IEC 9899:1999
35 * Programming language - C.
36 *
37 * Programs/Modules should not directly include this file. Access to the
38 * types defined in this file should be through the inclusion of one of the
39 * following files:
40 *
41 *     <limits.h>           This nested inclusion is disabled for strictly
42 *                          ANSI-C conforming compilations. The *_MIN
43 *                          definitions are not visible to POSIX or XPG
44 *                          conforming applications (due to what may be
45 *                          a bug in the specification - this is under
46 *                          investigation)
47 *
48 *     <sys/inttypes.h>     Provides the Kernel and Driver appropriate
49 *                          components of <inttypes.h>.
50 *
51 *     <inttypes.h>        For use by applications.
52 *
53 * See these files for more details.
54 */

56 #include <sys/feature_tests.h>

58 #ifdef __cplusplus
59 extern "C" {

```

```

60 #endif

62 /*
63  * Limits
64  *
65  * The following define the limits for the types defined in <sys/int_types.h>.
66  *
67  * INTMAX_MIN (minimum value of the largest supported signed integer type),
68  * INTMAX_MAX (maximum value of the largest supported signed integer type),
69  * and UINTMAX_MAX (maximum value of the largest supported unsigned integer
70  * type) can be set to implementation defined limits.
71  *
72  * NOTE : A programmer can test to see whether an implementation supports
73  * a particular size of integer by testing if the macro that gives the
74  * maximum for that datatype is defined. For example, if #ifdef UINT64_MAX
75  * tests false, the implementation does not support unsigned 64 bit integers.
76  *
77  * The type of these macros is intentionally unspecified.
78  *
79  * The types int8_t, int_least8_t, and int_fast8_t are not defined for ISAs
80  * where the ABI specifies "char" as unsigned when the translation mode is
81  * not ANSI-C.
82  */
83 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
83 #define INT8_MAX      (127)
85 #endif
84 #define INT16_MAX     (32767)
85 #define INT32_MAX     (2147483647)
86 #if defined(_LP64)
87 #define INT64_MAX     (9223372036854775807L)
88 #elif defined(_LONGLONG_TYPE)
89 #define INT64_MAX     (9223372036854775807LL)
90 #endif

92 #define UINT8_MAX     (255U)
93 #define UINT16_MAX    (65535U)
94 #define UINT32_MAX    (4294967295U)
95 #if defined(_LP64)
96 #define UINT64_MAX    (18446744073709551615UL)
97 #elif defined(_LONGLONG_TYPE)
98 #define UINT64_MAX    (18446744073709551615ULL)
99 #endif

101 #ifdef INT64_MAX
102 #define INTMAX_MAX    INT64_MAX
103 #else
104 #define INTMAX_MAX    INT32_MAX
105 #endif

107 #ifdef UINT64_MAX
108 #define UINTMAX_MAX   UINT64_MAX
109 #else
110 #define UINTMAX_MAX   UINT32_MAX
111 #endif

115 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
113 #define INT_LEAST8_MAX INT8_MAX
117 #endif
114 #define INT_LEAST16_MAX INT16_MAX
115 #define INT_LEAST32_MAX INT32_MAX
116 #ifdef INT64_MAX
117 #define INT_LEAST64_MAX INT64_MAX
118 #endif

120 #define UINT_LEAST8_MAX UINT8_MAX
121 #define UINT_LEAST16_MAX UINT16_MAX

```

new/usr/src/uts/common/sys/int\_limits.h

3

```
122 #define UINT_LEAST32_MAX UINT32_MAX
123 #ifdef UINT64_MAX
124 #define UINT_LEAST64_MAX UINT64_MAX
125 #endif

131 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
127 #define INT_FAST8_MAX INT8_MAX
133 #endif
128 #define INT_FAST16_MAX INT16_MAX
129 #define INT_FAST32_MAX INT32_MAX
130 #ifdef INT64_MAX
131 #define INT_FAST64_MAX INT64_MAX
132 #endif

134 #define UINT_FAST8_MAX UINT8_MAX
135 #define UINT_FAST16_MAX UINT16_MAX
136 #define UINT_FAST32_MAX UINT32_MAX
137 #ifdef UINT64_MAX
138 #define UINT_FAST64_MAX UINT64_MAX
139 #endif

141 /*
142 * The following 2 macros are provided for testing whether the types
143 * intptr_t and uintptr_t (integers large enough to hold a void *) are
144 * defined in this header. They are needed in case the architecture can't
145 * represent a pointer in any standard integral type.
146 */
147 #if defined(_LP64) || defined(_I32LPx)
148 #define INTPTR_MAX INT64_MAX
149 #define UINTPTR_MAX UINT64_MAX
150 #else
151 #define INTPTR_MAX INT32_MAX
152 #define UINTPTR_MAX UINT32_MAX
153 #endif

155 /* Maximum limits of ptrdiff_t defined in <sys/types.h> */
156 #if defined(_LP64) || defined(_I32LPx)
157 #define PTRDIFF_MAX 9223372036854775807L
158 #else
159 #define PTRDIFF_MAX 2147483647
160 #endif

162 /*
163 * Maximum value of a "size_t". SIZE_MAX was previously defined
164 * in <limits.h>, however, the standards specify it be defined
165 * in <stdint.h>. The <stdint.h> headers includes this header as
166 * does <limits.h>. The value of SIZE_MAX should not deviate
167 * from the value of ULONG_MAX defined <sys/types.h>.
168 */
169 #if defined(_LP64)
170 #define SIZE_MAX 18446744073709551615UL
171 #else
172 #define SIZE_MAX 4294967295UL
173 #endif

175 /* Maximum limit of sig_atomic_t defined in <sys/types.h> */
176 #ifndef SIG_ATOMIC_MAX
177 #define SIG_ATOMIC_MAX 2147483647
178 #endif

180 /*
181 * Maximum limit of wchar_t. The WCHAR_* macros are also
182 * defined in <iso/wchar_iso.h>, but inclusion of that header
183 * will break ISO/IEC C namespace.
184 */
185 #ifndef WCHAR_MAX
```

new/usr/src/uts/common/sys/int\_limits.h

4

```
186 #define WCHAR_MAX 2147483647
187 #endif

189 /* Maximum limit of wint_t */
190 #ifndef WINT_MAX
191 #define WINT_MAX 2147483647
192 #endif

194 /*
195 * It is probably a bug in the POSIX specification (IEEE-1003.1-1990) that
196 * when including <limits.h> that the suffix _MAX is reserved but not the
197 * suffix _MIN. However, until that issue is resolved...
198 */
199 #if defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) || defined(_XPG6)

207 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
201 #define INT8_MIN (-128)
209 #endif
202 #define INT16_MIN (-32767-1)
203 #define INT32_MIN (-2147483647-1)
204 #ifdef _LP64
205 #define INT64_MIN (-9223372036854775807L-1)
206 #elif defined(_LONGLONG_TYPE)
207 #define INT64_MIN (-9223372036854775807LL-1)
208 #endif

210 #ifdef INT64_MIN
211 #define INTMAX_MIN INT64_MIN
212 #else
213 #define INTMAX_MIN INT32_MIN
214 #endif

224 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
216 #define INT_LEAST8_MIN INT8_MIN
226 #endif
217 #define INT_LEAST16_MIN INT16_MIN
218 #define INT_LEAST32_MIN INT32_MIN
219 #ifdef INT64_MIN
220 #define INT_LEAST64_MIN INT64_MIN
221 #endif

223 #if defined(_CHAR_IS_SIGNED) || defined(__STDC__)
223 #define INT_FAST8_MIN INT8_MIN
225 #endif
224 #define INT_FAST16_MIN INT16_MIN
225 #define INT_FAST32_MIN INT32_MIN
226 #ifdef INT64_MIN
227 #define INT_FAST64_MIN INT64_MIN
228 #endif

230 /* Minimum value of a pointer-holding signed integer type */
231 #if defined(_LP64) || defined(_I32LPx)
232 #define INTPTR_MIN INT64_MIN
233 #else
234 #define INTPTR_MIN INT32_MIN
235 #endif

237 /* Minimum limits of ptrdiff_t defined in <sys/types.h> */
238 #if defined(_LP64) || defined(_I32LPx)
239 #define PTRDIFF_MIN (-9223372036854775807L-1L)
240 #else
241 #define PTRDIFF_MIN (-2147483647-1)
242 #endif

244 /* Minimum limit of sig_atomic_t defined in <sys/types.h> */
245 #ifndef SIG_ATOMIC_MIN
```

new/usr/src/uts/common/sys/int\_limits.h

5

```
246 #define SIG_ATOMIC_MIN (-2147483647-1)
247 #endif

249 /*
250 * Minimum limit of wchar_t. The WCHAR_* macros are also
251 * defined in <iso/wchar_iso.h>, but inclusion of that header
252 * will break ISO/IEC C namespace.
253 */
254 #ifndef WCHAR_MIN
255 #define WCHAR_MIN (-2147483647-1)
256 #endif

258 /* Minimum limit of wint_t */
259 #ifndef WINT_MIN
260 #define WINT_MIN (-2147483647-1)
261 #endif

263 #endif /* defined(__EXTENSIONS__) || !defined(__XOPEN_OR_POSIX) ... */

265 #ifdef __cplusplus
266 }
_____unchanged_portion_omitted_
```

```

*****
5129 Sat Aug 2 23:27:22 2014
new/usr/src/uts/common/sys/int_types.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 #ifndef _SYS_INT_TYPES_H
30 #define _SYS_INT_TYPES_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 /*
33 * This file, <sys/int_types.h>, is part of the Sun Microsystems implementation
34 * of <inttypes.h> defined in the ISO C standard, ISO/IEC 9899:1999
35 * Programming language - C.
36 *
37 * Programs/Modules should not directly include this file. Access to the
38 * types defined in this file should be through the inclusion of one of the
39 * following files:
40 *
41 *     <sys/types.h>           Provides only the "_t" types defined in this
42 *                             file which is a subset of the contents of
43 *                             <inttypes.h>. (This can be appropriate for
44 *                             all programs/modules except those claiming
45 *                             ANSI-C conformance.)
46 *
47 *     <sys/inttypes.h>       Provides the Kernel and Driver appropriate
48 *                             components of <inttypes.h>.
49 *
50 *     <inttypes.h>           For use by applications.
51 *
52 * See these files for more details.
53 */

55 #include <sys/feature_tests.h>

57 #ifdef __cplusplus
58 extern "C" {
59 #endif

```

```

61 /*
62  * Basic / Extended integer types
63  *
64  * The following defines the basic fixed-size integer types.
65  *
66  * Implementations are free to typedef them to Standard C integer types or
67  * extensions that they support. If an implementation does not support one
68  * of the particular integer data types below, then it should not define the
69  * typedefs and macros corresponding to that data type. Note that int8_t
70  * is not defined in -Xs mode on ISAs for which the ABI specifies "char"
71  * as an unsigned entity because there is no way to define an eight bit
72  * signed integral.
73  */
74 #if defined(__CHAR_IS_SIGNED)
75 typedef char          int8_t;
76 #else
77 #if defined(__STDC__)
77 typedef signed char   int8_t;
78 #endif
79 #endif
80 #endif
79 typedef short         int16_t;
80 typedef int           int32_t;
81 #ifdef _LP64
82 #define _INT64_TYPE
83 typedef long          int64_t;
84 #else /* _ILP32 */
85 #if defined(_LONGLONG_TYPE)
86 #define _INT64_TYPE
87 typedef long long     int64_t;
88 #endif
89 #endif

91 typedef unsigned char uint8_t;
92 typedef unsigned short uint16_t;
93 typedef unsigned int   uint32_t;
94 #ifdef _LP64
95 typedef unsigned long  uint64_t;
96 #else /* _ILP32 */
97 #if defined(_LONGLONG_TYPE)
98 typedef unsigned long long uint64_t;
99 #endif
100 #endif

102 /*
103  * intmax_t and uintmax_t are to be the longest (in number of bits) signed
104  * and unsigned integer types supported by the implementation.
105  */
106 #if defined(_INT64_TYPE)
107 typedef int64_t      intmax_t;
108 typedef uint64_t     uintmax_t;
109 #else
110 typedef int32_t      intmax_t;
111 typedef uint32_t     uintmax_t;
112 #endif

114 /*
115  * intptr_t and uintptr_t are signed and unsigned integer types large enough
116  * to hold any data pointer; that is, data pointers can be assigned into or
117  * from these integer types without losing precision.
118  */
119 #if defined(_LP64) || defined(_I32LPx)
120 typedef long         intptr_t;
121 typedef unsigned long uintptr_t;
122 #else
123 typedef int          intptr_t;

```

```

124 typedef unsigned int      uintptr_t;
125 #endif

127 /*
128 * The following define the fastest integer types that can hold the
129 * specified number of bits.
130 */
131 #if defined(_CHAR_IS_SIGNED)
132 typedef char              int_fast8_t;
133 #else
136 #if defined(__STDC__)
134 typedef signed char      int_fast8_t;
135 #endif
139 #endif
136 typedef int              int_fast16_t;
137 typedef int              int_fast32_t;
138 #ifdef _LP64
139 typedef long             int_fast64_t;
140 #else /* _ILP32 */
141 #if defined(_LONGLONG_TYPE)
142 typedef long long       int_fast64_t;
143 #endif
144 #endif

146 typedef unsigned char    uint_fast8_t;
147 typedef unsigned int     uint_fast16_t;
148 typedef unsigned int     uint_fast32_t;
149 #ifdef _LP64
150 typedef unsigned long    uint_fast64_t;
151 #else /* _ILP32 */
152 #if defined(_LONGLONG_TYPE)
153 typedef unsigned long long uint_fast64_t;
154 #endif
155 #endif

157 /*
158 * The following define the smallest integer types that can hold the
159 * specified number of bits.
160 */
161 #if defined(_CHAR_IS_SIGNED)
162 typedef char              int_least8_t;
163 #else
168 #if defined(__STDC__)
164 typedef signed char      int_least8_t;
165 #endif
171 #endif
166 typedef short           int_least16_t;
167 typedef int             int_least32_t;
168 #ifdef _LP64
169 typedef long            int_least64_t;
170 #else /* _ILP32 */
171 #if defined(_LONGLONG_TYPE)
172 typedef long long       int_least64_t;
173 #endif
174 #endif

176 typedef unsigned char    uint_least8_t;
177 typedef unsigned short   uint_least16_t;
178 typedef unsigned int     uint_least32_t;
179 #ifdef _LP64
180 typedef unsigned long    uint_least64_t;
181 #else /* _ILP32 */
182 #if defined(_LONGLONG_TYPE)
183 typedef unsigned long long uint_least64_t;
184 #endif
185 #endif

```

```

187 #ifdef __cplusplus
188 }
_____unchanged_portion_omitted_

```



new/usr/src/uts/common/sys/ipc.h

1

```
*****
2379 Sat Aug  2 23:27:23 2014
new/usr/src/uts/common/sys/ipc.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 1996-2003 Sun Microsystems, Inc.  All rights reserved.
26  * Use is subject to license terms.
27  */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved      */

34 #ifndef _SYS_IPC_H
35 #define _SYS_IPC_H

36 #pragma ident      "%Z%M% %I%      %E% SMI"

37 #include <sys/isa_defs.h>
38 #include <sys/feature_tests.h>
39 #include <sys/types.h>

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 /* Common IPC access structure */

47 struct ipc_perm {
48     uid_t      uid;      /* owner's user id */
49     gid_t      gid;      /* owner's group id */
50     uid_t      cuid;     /* creator's user id */
51     gid_t      cgid;     /* creator's group id */
52     mode_t     mode;     /* access modes */
53     uint_t     seq;      /* slot usage sequence number */
54     key_t      key;      /* key */
55 #if !defined(_LP64)
56     int        pad[4];   /* reserve area */
57 #endif
58 };
```

new/usr/src/uts/common/sys/ipc.h

2

```
61 /* Common IPC definitions */

63 /* Mode bits */
64 #define IPC_ALLOC      0100000      /* entry currently allocated */
65 #define IPC_CREAT      0001000      /* create entry if key doesn't exist */
66 #define IPC_EXCL      0002000      /* fail if key exists */
67 #define IPC_NOWAIT    0004000      /* error if request must wait */

69 /* Keys */
70 #define IPC_PRIVATE    (key_t)0      /* private key */

73 /* Common IPC control commands */
74 #define IPC_RMID      10      /* remove identifier */
75 #define IPC_SET      11      /* set options */
76 #define IPC_STAT      12      /* get options */

79 #if (!defined(_KERNEL) && !defined(_XOPEN_SOURCE)) || defined(_XPG4_2) || \
80     defined(__EXTENSIONS__)
81 #if defined(__STDC__)
81 key_t ftok(const char *, int);
83 #else
84 key_t ftok();
85 #endif /* defined(__STDC__) */
82 #endif /* (!defined(_KERNEL) && !defined(_XOPEN_SOURCE))... */

84 #ifdef __cplusplus
85 }

```

---

unchanged\_portion\_omitted

new/usr/src/uts/common/sys/lgrp\_user.h

1

```
*****
8222 Sat Aug  2 23:27:23 2014
new/usr/src/uts/common/sys/lgrp_user.h
remove support for non-ANSI compilation
*****
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 #ifndef _LGRP_USER_H
30 #define _LGRP_USER_H

30 #pragma ident      "%Z%M% %I%      %E% SMI"

32 /*
33  * latency group definitions for user
34  */

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

41 #include <sys/inttypes.h>
42 #include <sys/lgrp.h>
43 #include <sys/procset.h>
44 #include <sys/processor.h>
45 #include <sys/pset.h>
46 #include <sys/types.h>

49 /*
50  * lgroup interface version
51  */
52 #define LGRP_VER_NONE      0      /* no lgroup interface version */
53 #define LGRP_VER_CURRENT  2      /* current lgroup interface version */

56 /*
57  * lgroup system call subcodes
58  */
59 #define LGRP_SYS_MEMINFO  0      /* meminfo(2) aka MISYS_MEMINFO */
```

new/usr/src/uts/common/sys/lgrp\_user.h

2

```
60 #define LGRP_SYS_GENERATION 1      /* lgrp_generation() */
61 #define LGRP_SYS_VERSION   2      /* lgrp_version() */
62 #define LGRP_SYS_SNAPSHOT  3      /* lgrp_snapshot() */
63 #define LGRP_SYS_AFFINITY_GET 4    /* lgrp_affinity_get() */
64 #define LGRP_SYS_AFFINITY_SET 5    /* lgrp_affinity_set() */
65 #define LGRP_SYS_LATENCY   6      /* lgrp_latency() */
66 #define LGRP_SYS_HOME     7      /* lgrp_home() */

69 /*
70  * lgroup resources
71  */
72 #define LGRP_RSRC_COUNT    2      /* no. of resource types in lgroup */
73 #define LGRP_RSRC_CPU     0      /* CPU resources */
74 #define LGRP_RSRC_MEM     1      /* memory resources */

76 typedef int lgrp_rsrc_t;

80 /*
81  * lgroup affinity
82  */
83 #define LGRP_AFF_NONE     0x0     /* no affinity */
84 #define LGRP_AFF_WEAK    0x10    /* weak affinity */
85 #define LGRP_AFF_STRONG  0x100   /* strong affinity */

87 typedef int lgrp_affinity_t;

89 /*
90  * Arguments to lgrp_affinity_{get,set}()
91  */
92 typedef struct lgrp_affinity_args {
93     idtype_t      idtype; /* ID type */
94     id_t          id;     /* ID */
95     lgrp_id_t     lgrp;   /* lgroup */
96     lgrp_affinity_t aff;  /* affinity */
97 } lgrp_affinity_args_t;
_____ unchanged portion omitted

242 #endif /* _SYSCALL32 */

245 #if (!defined(_KERNEL) && !defined(_KMEMUSER))

247 #ifdef __STDC__

247 lgrp_affinity_t lgrp_affinity_get(idtype_t idtype, id_t id, lgrp_id_t lgrp);

249 int
250 lgrp_affinity_set(idtype_t idtype, id_t id, lgrp_id_t lgrp,
251 lgrp_affinity_t aff);

252 int
253 lgrp_children(lgrp_cookie_t cookie, lgrp_id_t lgrp,
254 lgrp_id_t *children, uint_t count);

255 int
256 lgrp_cookie_stale(lgrp_cookie_t cookie);

257 int
258 lgrp_cpus(lgrp_cookie_t cookie, lgrp_id_t lgrp,
259 processorid_t *cpuids, uint_t count, lgrp_content_t content);

260 int
261 lgrp_fini(lgrp_cookie_t cookie);

262 int
263 lgrp_latency(lgrp_id_t from, lgrp_id_t to);

264 int
265 lgrp_latency_cookie(lgrp_cookie_t cookie, lgrp_id_t from,
266 lgrp_id_t to, lgrp_lat_between_t between);
```

```
267 lgrp_id_t      lgrp_home(idtype_t idtype, id_t id);
269 lgrp_cookie_t  lgrp_init(lgrp_view_t view);
271 lgrp_mem_size_t lgrp_mem_size(lgrp_cookie_t cookie, lgrp_id_t lgrp,
272     lgrp_mem_size_flag_t type, lgrp_content_t content);
274 int            lgrp_nlgrps(lgrp_cookie_t cookie);
276 int            lgrp_parents(lgrp_cookie_t cookie, lgrp_id_t lgrp,
277     lgrp_id_t *parents, uint_t count);
279 int            lgrp_resources(lgrp_cookie_t cookie, lgrp_id_t lgrp,
280     lgrp_id_t *lgrps, uint_t count, lgrp_rsrc_t type);
282 lgrp_id_t      lgrp_root(lgrp_cookie_t cookie);
284 int            lgrp_version(int version);
286 lgrp_view_t    lgrp_view(lgrp_cookie_t cookie);
290 #else /* __STDC__ */
291 lgrp_affinity_t lgrp_affinity_get();
292 int            lgrp_affinity_set();
293 int            lgrp_children();
294 int            lgrp_cookie_stale();
295 int            lgrp_cpus();
296 int            lgrp_fini();
297 lgrp_id_t      lgrp_home();
298 int            lgrp_init();
299 int            lgrp_latency();
300 spgcnt_t      lgrp_mem_size();
301 int            lgrp_nlgrps();
302 int            lgrp_parents();
303 int            lgrp_resources();
304 lgrp_id_t      lgrp_root();
305 int            lgrp_version();
306 lgrp_view_t    lgrp_view();
307 #endif /* __STDC__ */
288 #endif /* !_KERNEL && !_KMEMUSER */
290 #ifdef __cplusplus
291 }
    unchanged portion omitted
```

new/usr/src/uts/common/sys/link.h

1

```
*****
23282 Sat Aug  2 23:27:23 2014
new/usr/src/uts/common/sys/link.h
remove support for non-ANSI compilation
*****
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19 * CDDL HEADER END
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24  * All Rights Reserved
25  *
26  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27  *
28  * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
29  */

31 #ifndef _SYS_LINK_H
32 #define _SYS_LINK_H

34 #ifndef _ASM
35 #include <sys/types.h>
36 #include <sys/elftypes.h>
37 #endif

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 /*
44  * Communication structures for the runtime linker.
45  */

47 /*
48  * The following data structure provides a self-identifying union consisting
49  * of a tag from a known list and a value.
50  */
51 #ifndef _ASM
52 typedef struct {
53     Elf32_Sword d_tag;          /* how to interpret value */
54     union {
55         Elf32_Word    d_val;
56         Elf32_Addr    d_ptr;
57         Elf32_Off     d_off;
58     } d_un;
59 } Elf32_Dyn;
    unchanged portion omitted
606 #endif /* defined(_LP64) || defined(_LONGLONG_TYPE) */
```

new/usr/src/uts/common/sys/link.h

2

```
607 #endif /* _ASM */

609 /*
610  * Attributes
611  */
612 #define EB_NULL 0          /* (void) last entry */
613 #define EB_DYNAMIC 1      /* (*) dynamic structure of subject */
614 #define EB_LDSO_BASE 2    /* (caddr_t) base address of ld.so */
615 #define EB_ARGV 3         /* (caddr_t) argument vector */
616 #define EB_ENVV 4        /* (char **) environment strings */
617 #define EB_AUXV 5        /* (auxv_t *) auxiliary vector */
618 #define EB_DEVZERO 6     /* (int) fd for /dev/zero */
619 #define EB_PAGESIZE 7    /* (int) page size */
620 #define EB_MAX 8         /* number of "EBs" */
621 #define EB_MAX_SIZE32 64 /* size in bytes, _ILP32 */
622 #define EB_MAX_SIZE64 128 /* size in bytes, _LP64 */

625 #ifndef _ASM

625 #ifdef __STDC__

627 /*
628  * Concurrency communication structure for libc callbacks.
629  */
630 extern void _ld_libc(void *);
631 #else /* __STDC__ */
632 extern void _ld_libc();
633 #endif /* __STDC__ */

632 #pragma unknown_control_flow(_ld_libc)
633 #endif /* _ASM */

635 #ifdef __cplusplus
636 }
    unchanged portion omitted
```

new/usr/src/uts/common/sys/lock.h

1

```
*****
1347 Sat Aug  2 23:27:23 2014
new/usr/src/uts/common/sys/lock.h
remove support for non-ANSI compilation
*****
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22 /*
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24  */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _SYS_LOCK_H
30 #define _SYS_LOCK_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 11.7 */

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 /*
37  * flags for locking procs and texts
38  */
39 #define UNLOCK      0
40 #define PROCLOCK    1
41 #define TXTLOCK     2
42 #define DATLOCK     4

44 #ifndef _KERNEL

46 #define MEMLOCK     8

47 #if defined(__STDC__)
48 int punlock(void);
49 #else
50 int punlock();
51 #endif /* __STDC__ */

50 #else

55 #if defined(__STDC__)
52 int plock(int);
57 #else
58 int plock();
```

new/usr/src/uts/common/sys/lock.h

2

```
59 #endif /* __STDC__ */

54 #endif /* _KERNEL */

56 #ifdef __cplusplus
57 }
   unchanged_portion_omitted
```

```

*****
2884 Sat Aug 2 23:27:23 2014
new/usr/src/uts/common/sys/mkdev.h
remove support for non-ANSI compilation
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17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
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25  * Use is subject to license terms.
26  */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved */

31 #ifndef _SYS_MKDEV_H
32 #define _SYS_MKDEV_H

34 #include <sys/types.h>

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 /*
41  * SVR3/Pre-EFT device number constants.
42  */
43 #define ONBITSMAJOR 7 /* # of SVR3 major device bits */
44 #define ONBITSMINOR 8 /* # of SVR3 minor device bits */
45 #define OMAXMAJ 0x7f /* SVR3 max major value */
46 #define OMAXMIN 0xff /* SVR3 max minor value */

48 /*
49  * 32-bit Solaris device major/minor sizes.
50  */
51 #define NBITSMAJOR32 14
52 #define NBITSMINOR32 18
53 #define MAXMAJ32 0x3ffff /* SVR4 max major value */
54 #define MAXMIN32 0x3ffff /* SVR4 max minor value */

56 #define NBITSMAJOR64 32 /* # of major device bits in 64-bit Solaris */
57 #define NBITSMINOR64 32 /* # of minor device bits in 64-bit Solaris */

59 #ifdef _LP64

61 #define MAXMAJ64 0xffffffff /* max major value */

```

```

62 #define MAXMIN64 0xffffffff /* max minor value */

64 #define NBITSMAJOR NBITSMAJOR64
65 #define NBITSMINOR NBITSMINOR64
66 #define MAXMAJ MAXMAJ64
67 #define MAXMIN MAXMIN64

69 #else /* !_LP64 */

71 #define NBITSMAJOR NBITSMAJOR32
72 #define NBITSMINOR NBITSMINOR32
73 #define MAXMAJ MAXMAJ32
74 #define MAXMIN MAXMIN32

76 #endif /* !_LP64 */

78 #if !defined(_KERNEL)

80 /*
81  * Undefine sysmacros.h device macros.
82  */
83 #undef makedev
84 #undef major
85 #undef minor

85 #if defined(__STDC__)

87 extern dev_t makedev(const major_t, const minor_t);
88 extern major_t major(const dev_t);
89 extern minor_t minor(const dev_t);
90 extern dev_t __makedev(const int, const major_t, const minor_t);
91 extern major_t __major(const int, const dev_t);
92 extern minor_t __minor(const int, const dev_t);

94 #else

96 extern dev_t makedev();
97 extern major_t major();
98 extern minor_t minor();
99 extern dev_t __makedev();
100 extern major_t __major();
101 extern minor_t __minor();

103 #endif /* defined(__STDC__) */

94 #define OLDDEV 0 /* old device format */
95 #define NEWDEV 1 /* new device format */

97 #define makedev(maj, min) (__makedev(NEWDEV, maj, min))
98 #define major(dev) (__major(NEWDEV, dev))
99 #define minor(dev) (__minor(NEWDEV, dev))

101 #endif /* !defined(_KERNEL) */

103 #ifdef __cplusplus
104 }
_____unchanged_portion_omitted_____

```

```

*****
14859 Sat Aug 2 23:27:23 2014
new/usr/src/uts/common/sys/mman.h
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17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
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23 /*
24 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
25 *
26 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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28 */

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31 /* All Rights Reserved */

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35 * The Regents of the University of California
36 * All Rights Reserved
37 *
38 * University Acknowledgment- Portions of this document are derived from
39 * software developed by the University of California, Berkeley, and its
40 * contributors.
41 */

43 #ifndef _SYS_MMAN_H
44 #define _SYS_MMAN_H

46 #include <sys/feature_tests.h>

48 #ifdef __cplusplus
49 extern "C" {
50 #endif

52 #if !defined(_ASM) && !defined(_KERNEL)
53 #include <sys/types.h>
54 #endif /* !_ASM && !_KERNEL */

56 /*
57 * Protections are chosen from these bits, or-ed together.
58 * Note - not all implementations literally provide all possible
59 * combinations. PROT_WRITE is often implemented as (PROT_READ |
60 * PROT_WRITE) and (PROT_EXECUTE as PROT_READ | PROT_EXECUTE).
61 * However, no implementation will permit a write to succeed

```

```

62 * where PROT_WRITE has not been set. Also, no implementation will
63 * allow any access to succeed where prot is specified as PROT_NONE.
64 */
65 #define PROT_READ 0x1 /* pages can be read */
66 #define PROT_WRITE 0x2 /* pages can be written */
67 #define PROT_EXEC 0x4 /* pages can be executed */

69 #ifdef _KERNEL
70 #define PROT_USER 0x8 /* pages are user accessible */
71 #define PROT_ZFOD (PROT_READ | PROT_WRITE | PROT_EXEC | PROT_USER)
72 #define PROT_ALL (PROT_READ | PROT_WRITE | PROT_EXEC | PROT_USER)
73 #endif /* _KERNEL */

75 #define PROT_NONE 0x0 /* pages cannot be accessed */

77 /* sharing types: must choose either SHARED or PRIVATE */
78 #define MAP_SHARED 1 /* share changes */
79 #define MAP_PRIVATE 2 /* changes are private */
80 #define MAP_TYPE 0xf /* mask for share type */

82 /* other flags to mmap (or-ed in to MAP_SHARED or MAP_PRIVATE) */
83 #define MAP_FIXED 0x10 /* user assigns address */
84 #define MAP_NORESERVE 0x40 /* don't reserve needed swap area */
85 #define MAP_ANON 0x100 /* map anonymous pages directly */
86 #define MAP_ANONYMOUS MAP_ANON /* (source compatibility) */
87 #define MAP_ALIGN 0x200 /* addr specifies alignment */
88 #define MAP_TEXT 0x400 /* map code segment */
89 #define MAP_INITDATA 0x800 /* map data segment */

91 #ifdef _KERNEL
92 #define _MAP_TEXTREPL 0x1000
93 #endif /* _KERNEL */

95 /* these flags not yet implemented */
96 #define MAP_RENAME 0x20 /* rename private pages to file */

98 #if (_POSIX_C_SOURCE <= 2) && !defined(_XPG4_2)
99 /* these flags are used by memcntl */
100 #define PROC_TEXT (PROT_EXEC | PROT_READ)
101 #define PROC_DATA (PROT_READ | PROT_WRITE | PROT_EXEC)
102 #define SHARED 0x10
103 #define PRIVATE 0x20
104 #define VALID_ATTR (PROT_READ|PROT_WRITE|PROT_EXEC|SHARED|PRIVATE)
105 #endif /* (_POSIX_C_SOURCE <= 2) && !defined(_XPG4_2) */

107 #if (_POSIX_C_SOURCE <= 2) || defined(_XPG4_2)
108 #ifdef _KERNEL
109 #define PROT_EXCL 0x20
110 #endif /* _KERNEL */

112 #define _MAP_LOW32 0x80 /* force mapping in lower 4G of address space */
113 #define MAP_32BIT _MAP_LOW32

115 /*
116 * For the sake of backward object compatibility, we use the _MAP_NEW flag.
117 * This flag will be automatically or'ed in by the C library for all
118 * new mmap calls. Previous binaries with old mmap calls will continue
119 * to get 0 or -1 for return values. New mmap calls will get the mapped
120 * address as the return value if successful and -1 on errors. By default,
121 * new mmap calls automatically have the kernel assign the map address
122 * unless the MAP_FIXED flag is given.
123 */
124 #define _MAP_NEW 0x80000000 /* users should not need to use this */
125 #endif /* (_POSIX_C_SOURCE <= 2) */

```

```

128 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
129 /* External flags for mmapobj syscall (Exclusive of MAP_* flags above) */
130 #define MMOBJ_PADDING      0x10000
131 #define MMOBJ_INTERPRET    0x20000

133 #define MMOBJ_ALL_FLAGS    (MMOBJ_PADDING | MMOBJ_INTERPRET)

135 /*
136  * Values for mr_flags field of mmapobj_result_t below.
137  * The bottom 16 bits are mutually exclusive and thus only one
138  * of them can be set at a time. Use MR_GET_TYPE below to check this value.
139  * The top 16 bits are used for flags which are not mutually exclusive and
140  * thus more than one of these flags can be set for a given mmapobj_result_t.
141  *
142  * MR_PADDING being set indicates that this memory range represents the user
143  * requested padding.
144  *
145  * MR_HDR_ELF being set indicates that the ELF header of the mapped object
146  * is mapped at mr_addr + mr_offset.
147  *
148  * MR_HDR_AOUT being set indicates that the AOUT (4.x) header of the mapped
149  * object is mapped at mr_addr + mr_offset.
150  */

152 /*
153  * External flags for mr_flags field below.
154  */
155 #define MR_PADDING      0x1
156 #define MR_HDR_ELF      0x2
157 #define MR_HDR_AOUT     0x3

159 /*
160  * Internal flags for mr_flags field below.
161  */
162 #ifdef _KERNEL
163 #define MR_RESV 0x80000000 /* overmapped /dev/null */
164 #endif /* _KERNEL */

166 #define MR_TYPE_MASK 0x0000ffff
167 #define MR_GET_TYPE(val) ((val) & MR_TYPE_MASK)

169 #if !defined(_ASM)
170 typedef struct mmapobj_result {
171     caddr_t      mr_addr; /* mapping address */
172     size_t       mr_msize; /* mapping size */
173     size_t       mr_fsize; /* file size */
174     size_t       mr_offset; /* offset into file */
175     uint_t       mr_prot; /* the protections provided */
176     uint_t       mr_flags; /* info on the mapping */
177 } mmapobj_result_t;
178 #endif /* !_ASM */
179 #ifdef _KERNEL
180 #endif /* !_ASM */
181 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

192 #if !defined(_ASM) && !defined(_KERNEL)
193 /*
194  * large file compilation environment setup
195  *
196  * In the LP64 compilation environment, map large file interfaces
197  * back to native versions where possible.
198  */

200 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
201 #ifdef __PRAGMA_REDEFINE_EXTNAME
202 #pragma redefine_extname      mmap      mmap64

```

```

203 #else
204 #define mmap      mmap64
205 #endif
206 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

208 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
209 #ifdef __PRAGMA_REDEFINE_EXTNAME
210 #pragma redefine_extname      mmap64      mmap
211 #else
212 #define mmap64      mmap
213 #endif
214 #endif /* !_LP64 && _LARGEFILE64_SOURCE */

216 #ifdef __PRAGMA_REDEFINE_EXTNAME
217 #pragma redefine_extname      getpagesizes      getpagesizes2
218 #else
219 #define getpagesizes      getpagesizes2
220 #endif

222 /*
223  * Except for old binaries mmap() will return the resultant
224  * address of mapping on success and (caddr_t)-1 on error.
225  */
226 #ifdef __STDC__
227 #if (_POSIX_C_SOURCE > 2) || defined(_XPG4_2)
228 extern void *mmap(void *, size_t, int, int, int, off_t);
229 extern int munmap(void *, size_t);
230 extern int mprotect(void *, size_t, int);
231 extern int msync(void *, size_t, int);
232 extern int mlock(const void *, size_t);
233 extern int munlock(const void *, size_t);
234 #endif /* (!defined(_XPG4_2) || (_POSIX_C_SOURCE > 2))... */
235 /* transitional large file interface version */
236 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
237     !defined(__PRAGMA_REDEFINE_EXTNAME))
238 extern void *mmap64(void *, size_t, int, int, int, off64_t);
239 #endif /* _LARGEFILE64_SOURCE... */
240 #else /* (_POSIX_C_SOURCE > 2) || defined(_XPG4_2) */
241 extern caddr_t mmap(caddr_t, size_t, int, int, int, off_t);
242 extern int munmap(caddr_t, size_t);
243 extern int mprotect(caddr_t, size_t, int);
244 extern int msync(caddr_t, size_t, int);
245 extern int mlock(caddr_t, size_t);
246 extern int munlock(caddr_t, size_t);
247 extern int mincore(caddr_t, size_t, char *);
248 extern int memcntl(caddr_t, size_t, int, caddr_t, int, int);
249 extern int madvise(caddr_t, size_t, int);
250 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
251 extern int getpagesizes(size_t *, int);
252 extern int getpagesizes2(size_t *, int);
253 extern int mmapobj(int, uint_t, mmapobj_result_t *, uint_t *, void *);
254 /* guard visibility of uint64_t */
255 #if defined(_INT64_TYPE)
256 extern int meminfo(const uint64_t *, int, const uint_t *, int, uint64_t *,
257     uint_t *);
258 #endif /* defined(_INT64_TYPE) */
259 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
260 /* transitional large file interface version */
261 #ifdef _LARGEFILE64_SOURCE
262 extern caddr_t mmap64(caddr_t, size_t, int, int, int, off64_t);
263 #endif
264 #endif /* (_POSIX_C_SOURCE > 2) || defined(_XPG4_2) */

266 #if (!defined(_XPG4_2) || (_POSIX_C_SOURCE > 2)) || defined(__EXTENSIONS__)
267 extern int mlockall(int);

```



```

268 extern int munlockall(void);
269 extern int shm_open(const char *, int, mode_t);
270 extern int shm_unlink(const char *);
271 #endif

273 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG6) || defined(__EXTENSIONS__)
274 extern int posix_madvise(void *, size_t, int);
275 #endif

277 /* mmap failure value */
278 #define MAP_FAILED ((void *) -1)

279 #else /* __STDC__ */
280 extern caddr_t mmap();
281 extern int munmap();
282 extern int mmapobj();
283 extern int mprotect();
284 extern int mincore();
285 extern int memcntl();
286 extern int msync();
287 extern int madvise();
288 extern int posix_madvise();
289 extern int getpagesizes();
290 extern int getpagesizes2();
291 extern int mlock();
292 extern int mlockall();
293 extern int munlock();
294 extern int munlockall();
295 extern int meminfo();
296 extern int shm_open();
297 extern int shm_unlink();

299 /* transitional large file interface version */
300 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
301     !defined(__PRAGMA_REDEFINE_EXTNAME))
302 extern caddr_t mmap64();
303 #endif /* _LARGEFILE64_SOURCE... */
304 #endif /* __STDC__ */

281 #endif /* !_ASM && !_KERNEL */

283 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
284 #if !defined(_ASM)
285 /*
286  * structure for memcntl hat advise operations.
287  */
288 struct memcntl_mha {
289     uint_t      mha_cmd;      /* command(s) */
290     uint_t      mha_flags;
291     size_t      mha_pagesize;
292 };
293 #endif
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313 #define MADV_ACCESS_LWP      7      /* next LWP to access heavily */
314 #define MADV_ACCESS_MANY    8      /* many processes to access heavily */
315 #endif /* (_POSIX_C_SOURCE <= 2) && !defined(__XPG4_2) ... */

317 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG6) || defined(__EXTENSIONS__)
318 /* advice to posix_madvise */
319 /* these values must be kept in sync with the MADV_* values, above */
320 #define POSIX_MADV_NORMAL    0      /* MADV_NORMAL */
321 #define POSIX_MADV_RANDOM    1      /* MADV_RANDOM */
322 #define POSIX_MADV_SEQUENTIAL 2      /* MADV_SEQUENTIAL */
323 #define POSIX_MADV_WILLNEED  3      /* MADV_WILLNEED */
324 #define POSIX_MADV_DONTNEED  4      /* MADV_DONTNEED */
325 #endif

327 /* flags to msync */
328 #define MS_OLDSDSYNC        0x0      /* old value of MS_SYNC */
329                                     /* modified for UNIX98 compliance */
330 #define MS_SYNC             0x4      /* wait for msync */
331 #define MS_ASYNC            0x1      /* return immediately */
332 #define MS_INVALIDATE       0x2      /* invalidate caches */

334 #if (_POSIX_C_SOURCE <= 2) && !defined(__XPG4_2) || defined(__EXTENSIONS__)
335 /* functions to mctl */
336 #define MC_SYNC              1      /* sync with backing store */
337 #define MC_LOCK              2      /* lock pages in memory */
338 #define MC_UNLOCK           3      /* unlock pages from memory */
339 #define MC_ADVISE            4      /* give advice to management */
340 #define MC_LOCKAS           5      /* lock address space in memory */
341 #define MC_UNLOCKAS         6      /* unlock address space from memory */
342 #define MC_HAT_ADVISE       7      /* advise hat map size */

344 /* sub-commands for MC_HAT_ADVISE */
345 #define MHA_MAPSIZE_VA       0x1      /* set preferred page size */
346 #define MHA_MAPSIZE_BSSBRK  0x2      /* set preferred page size */
347                                     /* for last bss adjacent to */
348                                     /* brk area and brk area itself */
349 #define MHA_MAPSIZE_STACK   0x4      /* set preferred page size */
350                                     /* processes main stack */

352 #endif /* (_POSIX_C_SOURCE <= 2) && !defined(__XPG4_2) ... */

354 #if (!defined(__XPG4_2) || (_POSIX_C_SOURCE > 2)) || defined(__EXTENSIONS__)
355 /* flags to mlockall */
356 #define MCL_CURRENT          0x1      /* lock current mappings */
357 #define MCL_FUTURE           0x2      /* lock future mappings */
358 #endif /* (!defined(__XPG4_2) || (_POSIX_C_SOURCE)) || defined(__EXTENSIONS__) */

360 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

362 /* definitions for meminfosys syscall */
363 #define MISYS_MEMINFO        0x0

365 #if !defined(_ASM)
391 #if !defined(_ASM) && defined(__STDC__)

367 #if defined(_INT64_TYPE)
368 /* private structure for meminfo */
369 typedef struct meminfo {
370     const uint64_t *mi_inaddr;      /* array of input addresses */
371     const uint_t *mi_info_req;      /* array of types of info requested */
372     uint64_t *mi_outdata;           /* array of results are placed */
373     uint_t *mi_validity;            /* array of bitwise result codes */
374     int mi_info_count;              /* number of pieces of info requested */
375 } meminfo_t;
376 #endif
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388 #endif /* !defined(__ASM) */
414 #endif /* !defined(__ASM) && defined(__STDC__) */

390 /*
391  * info_req request type definitions for meminfo
392  * request types starting with MEMINFO_V are used for Virtual addresses
393  * and should not be mixed with MEMINFO_PLGRP which is targeted for Physical
394  * addresses
395  */
396 #define MEMINFO_SHIFT          16
397 #define MEMINFO_MASK           (0xFF << MEMINFO_SHIFT)
398 #define MEMINFO_VPHYSICAL      (0x01 << MEMINFO_SHIFT) /* get physical addr */
399 #define MEMINFO_VLGRP          (0x02 << MEMINFO_SHIFT) /* get lgroup */
400 #define MEMINFO_VPAGESIZE      (0x03 << MEMINFO_SHIFT) /* size of phys page */
401 #define MEMINFO_VREPLCNT       (0x04 << MEMINFO_SHIFT) /* no. of replica */
402 #define MEMINFO_VREPL          (0x05 << MEMINFO_SHIFT) /* physical replica */
403 #define MEMINFO_VREPL_LGRP     (0x06 << MEMINFO_SHIFT) /* lgrp of replica */
404 #define MEMINFO_PLGRP          (0x07 << MEMINFO_SHIFT) /* lgroup for paddr */

406 /* maximum number of addresses meminfo() can process at a time */
407 #define MAX_MEMINFO_CNT 256

409 /* maximum number of request types */
410 #define MAX_MEMINFO_REQ 31

412 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

414 #ifdef __cplusplus
415 }
  unchanged_portion_omitted

```

```

*****
2669 Sat Aug 2 23:27:23 2014
new/usr/src/uts/common/sys/mnttab.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
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11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
22 /*      All Rights Reserved      */

25 /*
26  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27  *
28  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
29  * Use is subject to license terms.
30  */

32 #ifndef _SYS_MNTTAB_H
33 #define _SYS_MNTTAB_H

35 #include <sys/types.h>

37 #ifdef __cplusplus
38 extern "C" {
39 #endif

41 #define MNTTAB "/etc/mnttab"
42 #define MNT_LINE_MAX 1024

44 #define MNT_TOOLONG 1 /* entry exceeds MNT_LINE_MAX */
45 #define MNT_TOOMANY 2 /* too many fields in line */
46 #define MNT_TOOFEW 3 /* too few fields in line */

48 #define mntnull(mp)\
49     ((mp)->mnt_special = (mp)->mnt_mountp = \  
50     (mp)->mnt_fstype = (mp)->mnt_mntopts = \  
51     (mp)->mnt_time = NULL)

53 #define putmntent(fd, mp) (-1)

55 /*
56  * The fields in struct extmnttab should match those in struct mnttab until new
57  * fields are encountered. This allows hasmntopt(), getmntent_common() and
58  * mntioctl() to cast one type to the other safely.
59  *
60  * The fields in struct mnttab, struct extmnttab and struct mntentbuf must all
61  * match those in the corresponding 32-bit versions defined in mntvnops.c.

```

```

62 */
63 struct mnttab {
64     char *mnt_special;
65     char *mnt_mountp;
66     char *mnt_fstype;
67     char *mnt_mntopts;
68     char *mnt_time;
69 };
    unchanged_portion_omitted

87 #if !defined(_KERNEL)
88 #ifdef __STDC__
88 extern void resetmnttab(FILE *);
89 extern int getmntent(FILE *, struct mnttab *);
90 extern int getextmntent(FILE *, struct extmnttab *, size_t);
91 extern int getmntany(FILE *, struct mnttab *, struct mnttab *);
92 extern char *hasmntopt(struct mnttab *, char *);
93 extern char *mntopt(char **);
93 #else
94 extern void resetmnttab();
95 extern int getmntent();
96 extern int getextmntent();
97 extern int getmntany();
98 extern char *hasmntopt();
99 extern char *mntopt();
94 #endif
101 #endif

96 #ifdef __cplusplus
97 }
    unchanged_portion_omitted

```

new/usr/src/uts/common/sys/mount.h

1

```
*****
2774 Sat Aug 2 23:27:23 2014
new/usr/src/uts/common/sys/mount.h
remove support for non-ANSI compilation
*****
1 /*
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
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22 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
23 /*      All Rights Reserved */

26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright (c) 1996, 1999 by Sun Microsystems, Inc.
30 * All rights reserved.
31 */

33 #ifndef _SYS_MOUNT_H
34 #define _SYS_MOUNT_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 11.10 */

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 /*
41  * Flag bits passed to mount(2).
42  */
43 #define MS_RDONLY      0x0001 /* Read-only */
44 #define MS_FSS         0x0002 /* Old (4-argument) mount (compatibility) */
45 #define MS_DATA        0x0004 /* 6-argument mount */
46 #define MS_NOSUID      0x0010 /* Setuid programs disallowed */
47 #define MS_REMOUNT     0x0020 /* Remount */
48 #define MS_NOTRUNC     0x0040 /* Return ENAMETOOLONG for long filenames */
49 #define MS_OVERLAY     0x0080 /* Allow overlay mounts */
50 #define MS_OPTIONSTR   0x0100 /* Data is an in/out option string */
51 #define MS_GLOBAL      0x0200 /* Clustering: Mount into global name space */
52 #define MS_FORCE       0x0400 /* Forced unmount */
53 #define MS_NOMNTTAB   0x0800 /* Don't show mount in mnttab */
54 /*
55  * Additional flag bits that domount() is prepared to interpret, but that
56  * can't be passed through mount(2).
57  */
58 #define MS_SYSSPACE    0x0008 /* Mount already in kernel space */
59 #define MS_NOSPLICE    0x1000 /* Don't splice fs instance into name space */
```

new/usr/src/uts/common/sys/mount.h

2

```
60 #define MS_NOCHECK     0x2000 /* Clustering: suppress mount busy checks */
61 /*
62  * Mask to sift out flag bits allowable from mount(2).
63  */
64 #define MS_MASK \
65     (MS_RDONLY|MS_FSS|MS_DATA|MS_NOSUID|MS_REMOUNT|MS_NOTRUNC|MS_OVERLAY|\
66      MS_OPTIONSTR|MS_GLOBAL|MS_NOMNTTAB)

68 /*
69  * Mask to sift out flag bits allowable from umount2(2).
70  */

72 #define MS_UMOUNT_MASK (MS_FORCE)

74 /*
75  * Maximum option string length accepted or returned by mount(2).
76  */
77 #define MAX_MNTOPT_STR 1024 /* max length of mount options string */

79 #if !defined(_KERNEL)
79 #if defined(__STDC__) && !defined(_KERNEL)
80 int mount(const char *, const char *, int, ...);
81 int umount(const char *);
82 int umount2(const char *, int);
83 #endif

85 #ifdef __cplusplus
86 }
    unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/msg.h

1

```
*****
3681 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/msg.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
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10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 1999-2003 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27  */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved */

33 #ifndef _SYS_MSG_H
34 #define _SYS_MSG_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"

36 #include <sys/ipc.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /*
43  * IPC Message Facility.
44  */

46 /*
47  * Implementation Constants.
48  */

50 /*
51  * Permission Definitions.
52  */
53 #define MSG_R    0400    /* read permission */
54 #define MSG_W    0200    /* write permission */

56 /*
57  * ipc_perm Mode Definitions.
58  */
59 #define MSG_RWAIT    01000    /* a reader is waiting for a message */
```

new/usr/src/uts/common/sys/msg.h

2

```
60 #define MSG_WWAIT    02000    /* a writer is waiting to send */

62 /*
63  * Message Operation Flags.
64  */
65 #define MSG_NOERROR    010000    /* no error if big message */

67 typedef unsigned long msgqnum_t;
68 typedef unsigned long msglen_t;

70 struct msg;
71 struct msqid_ds {
72     struct ipc_perm msg_perm;    /* operation permission struct */
73     struct msg    *msg_first;    /* ptr to first message on q */
74     struct msg    *msg_last;    /* ptr to last message on q */
75     msglen_t    msg_cbytes;    /* current # bytes on q */
76     msgqnum_t    msg_qnum;    /* # of messages on q */
77     msglen_t    msg_qbytes;    /* max # of bytes on q */
78     pid_t    msg_lspid;    /* pid of last msgsnd */
79     pid_t    msg_lrpid;    /* pid of last msgrcv */
80 #if defined(_LP64)
81     time_t    msg_stime;    /* last msgsnd time */
82     time_t    msg_rtime;    /* last msgrcv time */
83     time_t    msg_ctime;    /* last change time */
84 #else
85     time_t    msg_stime;    /* last msgsnd time */
86     int32_t    msg_pad1;    /* reserved for time_t expansion */
87     time_t    msg_rtime;    /* last msgrcv time */
88     int32_t    msg_pad2;    /* time_t expansion */
89     time_t    msg_ctime;    /* last change time */
90     int32_t    msg_pad3;    /* time_t expansion */
91 #endif
92     short    msg_cv;
93     short    msg_qnum_cv;
94     long    msg_pad4[3];    /* reserve area */
95 };

unchanged_portion_omitted

128 #if !defined(_KERNEL)
129 #if defined(__STDC__)
129 int msgctl(int, int, struct msqid_ds *);
130 int msgget(key_t, int);
131 int msgids(int *, uint_t, uint_t *);
132 int msgsnap(int, void *, size_t, long);
133 ssize_t msgrcv(int, void *, size_t, long, int);
134 int msgsnd(int, const void *, size_t, int);
136 #else /* __STDC__ */
137 int msgctl();
138 int msgget();
139 int msgids();
140 int msgsnap();
141 int msgrcv();
142 int msgsnd();
143 #endif /* __STDC__ */
135 #endif /* !_KERNEL */

137 #ifdef __cplusplus
138 }
unchanged_portion_omitted
```

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*****
4178 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/netconfig.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
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10 * or http://www.opensolaris.org/os/licensing.
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12 * and limitations under the License.
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
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20 * CDDL HEADER END
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26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30 * Use is subject to license terms.
31 */

33 #ifndef _SYS_NETCONFIG_H
34 #define _SYS_NETCONFIG_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.4 */

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 #define NETCONFIG "/etc/netconfig"
41 #define NETPATH  "NETPATH"

43 struct netconfig {
44     char      *nc_netid;      /* network identifier      */
45     unsigned int nc_semantics; /* defined below          */
46     unsigned int nc_flag;     /* defined below          */
47     char      *nc_protofmly; /* protocol family name   */
48     char      *nc_proto;     /* protocol name           */
49     char      *nc_device;    /* device name for network id */
50     unsigned int nc_nlookups; /* # of entries in nc_lookups */
51     char      **nc_lookups;  /* list of lookup directories */
52     unsigned int nc_unused[8]; /* borrowed for lockd etc. */
53 };

unchanged_portion_omitted

60 /*
61 * Values of nc_semantics
62 */

```

```

64 #define NC_TPI_CLTS      1
65 #define NC_TPI_COTS      2
66 #define NC_TPI_COTS_ORD 3
67 #define NC_TPI_RAW      4
68 /*
69 * NOT FOR PUBLIC USE, Solaris internal only.
70 * This value of nc_semantics is strictly for use of Remote Direct
71 * Memory Access provider interfaces in Solaris only and not for
72 * general use. Do not use this value for general purpose user or
73 * kernel programming. If used the behavior is undefined.
74 * This is a PRIVATE interface to be used by Solaris kRPC only.
75 */
76 #define NC_TPI_RDMA      5

78 /*
79 * Values of nc_flag
80 */

82 #define NC_NOFLAG      00
83 #define NC_VISIBLE     01
84 #define NC_BROADCAST   02

86 /*
87 * Values of nc_protofmly
88 */

90 #define NC_NOPROTOFMLY  "-"
91 #define NC_LOOPBACK    "loopback"
92 #define NC_INET        "inet"
93 #define NC_INET6       "inet6"
94 #define NC_IMPLINK     "implink"
95 #define NC_PUP         "pup"
96 #define NC_CHAOS       "chaos"
97 #define NC_NS          "ns"
98 #define NC_NBS         "nbs"
99 #define NC_ECMA        "ecma"
100 #define NC_DATAKIT     "datakit"
101 #define NC_CCITT       "ccitt"
102 #define NC_SNA         "sna"
103 #define NC_DECNET      "decnet"
104 #define NC_DLI         "dli"
105 #define NC_LAT         "lat"
106 #define NC_HYLINK     "hylink"
107 #define NC_APPLETALK   "appletalk"
108 #define NC_NIT         "nit"
109 #define NC_IEEE802     "ieee802"
110 #define NC_OSI         "osi"
111 #define NC_X25         "x25"
112 #define NC_OSINET     "osinet"
113 #define NC_GOSIP       "gosip"
114 /*
115 * NOT FOR PUBLIC USE, Solaris internal only.
116 * This value of nc_semantics is strictly for use of Remote Direct
117 * Memory Access provider interfaces in Solaris only and not for
118 * general use. Do not use this value for general purpose user or
119 * kernel programming. If used the behavior is undefined.
120 * This is a PRIVATE interface to be used by Solaris kRPC only.
121 */
122 #define NC_RDMA        "rdma"

124 /*
125 * Values for nc_proto
126 */

128 #define NC_NOPROTO     "-"
129 #define NC_TCP         "tcp"

```

```
130 #define NC_UDP          "udp"
131 #define NC_ICMP         "icmp"

133 /*
134  *      Values for nc_proto for "rdma" protofmlly
135  */
136 #define NC_KVIPL        "kvipl"
137 #define NC_IBTF         "ibtf"
138 #define NC_KDAPL        "kdapl"

140 #if defined(__STDC__)

140 extern void             *setnetconfig(void);
141 extern int              endnetconfig(void *);
142 extern struct netconfig *getnetconfig(void *);
143 extern struct netconfig *getnetconfigf(const char *);
144 extern void             frenetconfigf(struct netconfig *);
145 extern void             *setnetpath(void);
146 extern int              endnetpath(void *);
147 extern struct netconfig *getnetpath(void *);
148 extern void             nc_perror(const char *);
149 extern char             *nc_serror(void);

153 #else /* __STDC__ */

155 extern void             *setnetconfig();
156 extern int              endnetconfig();
157 extern struct netconfig *getnetconfig();
158 extern struct netconfig *getnetconfigf();
159 extern void             frenetconfigf();
160 extern void             *setnetpath();
161 extern int              endnetpath();
162 extern struct netconfig *getnetpath();
163 extern void             nc_perror();
164 extern char             *nc_serror();

166 #endif /* __STDC__ */

151 #ifndef __cplusplus
152 }
    unchanged_portion_omitted

```

new/usr/src/uts/common/sys/poll.h

1

```
*****
4065 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/poll.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
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20 * CDDL HEADER END
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23 /*      All Rights Reserved      */

26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright (c) 1995, 1998 by Sun Microsystems, Inc.
30 * All rights reserved.
31 */

33 #ifndef _SYS_POLL_H
34 #define _SYS_POLL_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 11.9 */

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 /*
41  * Structure of file descriptor/event pairs supplied in
42  * the poll arrays.
43  */
44 typedef struct pollfd {
45     int fd;                /* file desc to poll */
46     short events;          /* events of interest on fd */
47     short revents;         /* events that occurred on fd */
48 } pollfd_t;
   unchanged_portion_omitted

111 #if defined(_KERNEL)

113 /*
114  * Routine called to notify a process of the occurrence
115  * of an event.
116  */
117 extern void pollwakeup(pollhead_t *, short);

119 /*
```

new/usr/src/uts/common/sys/poll.h

2

```
120 * Internal routines.
121 */
122 extern void polllock(pollhead_t *, kmutex_t *);
123 extern int pollunlock(void);
124 extern void pollrelock(int);
125 extern void pollcleanup(void);
126 extern void pollblockexit(struct fpollinfo *);
127 extern void pollcacheclean(struct fpollinfo *, int);

129 /*
130  * public poll head interface:
131  *
132  * pollhead_clean      clean up all polldats on a pollhead list
133  */
134 extern void pollhead_clean(pollhead_t *);

136 #endif /* defined(_KERNEL) */

138 #endif /* defined(_KERNEL) || defined(_KMEMUSER) */

140 #if !defined(_KERNEL)
141 #if defined(__STDC__)
141 int poll(struct pollfd *, nfds_t, int);
143 #else
144 int poll();
145 #endif /* __STDC__ */
142 #endif /* !_KERNEL */

144 #ifdef __cplusplus
145 }
   unchanged_portion_omitted
```



new/usr/src/uts/common/sys/priocntl.h

1

```
*****
4952 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/priocntl.h
remove support for non-ANSI compilation
*****
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30 /*      All Rights Reserved      */
32 #ifndef _SYS_PRIOCNTL_H
33 #define _SYS_PRIOCNTL_H
33 #pragma ident      "%Z%M% %I%      %E% SMI"      /* from SVR4 1.6 */
35 #include <sys/types.h>
36 #include <sys/procset.h>
38 #ifdef __cplusplus
39 extern "C" {
40 #endif
42 #define PC_VERSION      1      /* First version of priocntl */
44 #ifdef __STDC__
44 extern long      priocntl(idtype_t, id_t, int, ...);
45 extern long      priocntlset(procset_t *, int, ...);
47 #else
48 extern long      priocntl(), priocntlset();
49 #endif /* __STDC__ */
47 /*
48 * The following are the possible values of the command
49 * argument for the priocntl system call.
50 */
52 #define PC_GETCID      0      /* Get class ID */
53 #define PC_GETCLINFO      1      /* Get info about a configured class */
54 #define PC_SETPARMS      2      /* Set scheduling parameters */
55 #define PC_GETPARMS      3      /* Get scheduling parameters */
```

new/usr/src/uts/common/sys/priocntl.h

2

```
56 #define PC_ADMIN      4      /* Scheduler administration (used by */
57 /* dispadmin(1M), not for general use) */
58 #define PC_GETPRIRANGE      5      /* Get priority range for a class */
59 /* posix.4 scheduling, not for general use */
60 #define PC_DONICE      6      /* Set or get nice value */
61 #define PC_SETXPARMS      7      /* Set extended scheduling parameters */
62 #define PC_GETXPARMS      8      /* Get extended scheduling parameters */
63 #define PC_SETDFLCL      9      /* Set default class, not for general use */
64 #define PC_GETDFLCL      10     /* Get default class, not for general use */
65 #define PC_DOPRIO      11     /* Set or get priority, not for general use */
67 #define PC_CLNULL      -1
69 #define PC_CLNMSZ      16
70 #define PC_CLINFOSZ      (32 / sizeof (int))
71 #define PC_CLPARMSZ      (32 / sizeof (int))
73 #define PC_GETNICE      0
74 #define PC_SETNICE      1
76 #define PC_GETPRIO      0
77 #define PC_SETPRIO      1
79 typedef struct pinfo {
80     id_t      pc_cid;      /* class id */
81     char      pc_clname[PC_CLNMSZ]; /* class name */
82     int      pc_clinfo[PC_CLINFOSZ]; /* class information */
83 } pinfo_t;
unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/priv.h

1

```
*****
7286 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/priv.h
remove support for non-ANSI compilation
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21 /*
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23 *
24 * Copyright (c) 2003, 2010, Oracle and/or its affiliates. All rights reserved.
25 */

27 #ifndef _SYS_PRIV_H
28 #define _SYS_PRIV_H

30 #include <sys/types.h>
31 #include <sys/cred.h>
32 #include <sys/priv_names.h>

34 #ifdef __cplusplus
35 extern "C" {
36 #endif

38 typedef uint32_t priv_chunk_t;
39 typedef struct priv_set priv_set_t;

41 #ifdef _KERNEL

43 /*
44  * Kernel type definitions.
45  */
46 typedef int priv_ptype_t;
47 typedef int priv_t;

49 #else /* _KERNEL */

51 /*
52  * Userland type definitions.
53  */

53 #ifdef __STDC__
55 typedef const char *priv_ptype_t;
56 typedef const char *priv_t;
57 #else
57 typedef char *priv_ptype_t;
58 typedef char *priv_t;
59 #endif
```

new/usr/src/uts/common/sys/priv.h

2

```
58 #endif /* _KERNEL */

60 /*
61  * priv_op_t indicates a privilege operation type
62  */
63 typedef enum priv_op {
64     PRIV_ON,
65     PRIV_OFF,
66     PRIV_SET
67 } priv_op_t;
unchanged_portion_omitted
```

```

*****
4157 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/processor.h
remove support for non-ANSI compilation
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25 */
27 /*
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29 *
30 * Copyright 2008 Sun Microsystems, Inc. All rights reserved.
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32 */
34 #ifndef _SYS_PROCESSOR_H
35 #define _SYS_PROCESSOR_H
37 #include <sys/types.h>
38 #include <sys/procset.h>
40 #ifdef __cplusplus
41 extern "C" {
42 #endif
44 /*
45 * Definitions for p_online, processor_info & lgrp system calls.
46 */
48 /*
49 * Type for an lgrp_id
50 */
51 typedef uint16_t lgrp_id_t;
53 /*
54 * Type for processor name (CPU number).
55 */
56 typedef int processorid_t;
57 typedef int chipid_t;
59 /*
60 * Flags and return values for p_online(2), and pi_state for processor_info(2).
61 * These flags are *not* for in-kernel examination of CPU states.

```

```

62 * See <sys/cpuvar.h> for appropriate informational functions.
63 */
64 #define P_OFFLINE 0x0001 /* processor is offline, as quiet as possible */
65 #define P_ONLINE 0x0002 /* processor is online */
66 #define P_STATUS 0x0003 /* value passed to p_online to request status */
67 #define P_FAULTED 0x0004 /* processor is offline, in faulted state */
68 #define P_POWEROFF 0x0005 /* processor is powered off */
69 #define P_NOINTR 0x0006 /* processor is online, but no I/O interrupts */
70 #define P_SPARE 0x0007 /* processor is offline, can be reactivated */
71 #define P_BAD P_FAULTED /* unused but defined by USL */
72 #define P_FORCED 0x1000000 /* force processor offline */
74 /*
75 * String names for processor states defined above.
76 */
77 #define PS_OFFLINE "off-line"
78 #define PS_ONLINE "on-line"
79 #define PS_FAULTED "faulted"
80 #define PS_POWEROFF "powered-off"
81 #define PS_NOINTR "no-intr"
82 #define PS_SPARE "spare"
84 /*
85 * Structure filled in by processor_info(2). This structure
86 * SHOULD NOT BE MODIFIED. Changes to the structure would
87 * negate ABI compatibility.
88 *
89 * The string fields are guaranteed to contain a NULL.
90 *
91 * The pi_fputypes field contains a (possibly empty) comma-separated
92 * list of floating point identifier strings.
93 */
94 #define PI_TYPELEN 16 /* max size of CPU type string */
95 #define PI_FPUTYPE 32 /* max size of FPU types string */
97 typedef struct {
98     int pi_state; /* processor state, see above */
99     char pi_processor_type[PI_TYPELEN]; /* ASCII CPU type */
100     char pi_fputypes[PI_FPUTYPE]; /* ASCII FPU types */
101     int pi_clock; /* CPU clock freq in MHz */
102 } processor_info_t;
104 /*
105 * Binding values for processor_bind(2)
106 */
107 #define PBIND_NONE -1 /* LWP/thread is not bound */
108 #define PBIND_QUERY -2 /* don't set, just return the binding */
109 #define PBIND_HARD -3 /* prevents offlining CPU (default) */
110 #define PBIND_SOFT -4 /* allows offlining CPU */
111 #define PBIND_QUERY_TYPE -5 /* Return binding type */
113 /*
114 * User-level system call interface prototypes
115 */
116 #ifndef _KERNEL
117 #ifdef __STDC__
118 extern int p_online(processorid_t processorid, int flag);
119 extern int processor_info(processorid_t processorid,
120 processor_info_t *infp);
121 extern int processor_bind(idtype_t idtype, id_t id,
122 processorid_t processorid, processorid_t *obind);
123 extern processorid_t getcpuid(void);
124 extern lgrp_id_t gethomelgroup(void);
125 #else

```

```
127 extern int      p_online();
128 extern int      processor_info();
129 extern int      processor_bind();
130 extern processorid_t getcpuid();
131 extern lgrpид_t gethomeigroup();

133 #endif /* __STDC__ */

126 #else /* _KERNEL */

128 /*
129  * Internal interface prototypes
130  */
131 extern int      p_online_internal(processorid_t, int, int *);
132 extern int      p_online_internal_locked(processorid_t, int, int *);

134 #endif /* !_KERNEL */

136 #ifdef __cplusplus
137 }
_____unchanged_portion_omitted_
```

```

*****
2388 Sat Aug 2 23:27:24 2014
new/usr/src/uts/common/sys/pset.h
remove support for non-ANSI compilation
*****
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26 */

28 #ifndef _SYS_PSET_H
29 #define _SYS_PSET_H

31 #ifdef __cplusplus
32 extern "C" {
33 #endif

35 #if !defined(_ASM)

37 #include <sys/types.h>
38 #include <sys/processor.h>
39 #include <sys/procset.h>

41 typedef int psetid_t;

43 /* special processor set id's */
44 #define PS_NONE -1
45 #define PS_QUERY -2
46 #define PS_MYID -3
47 #define PS_SOFT -4
48 #define PS_HARD -5
49 #define PS_QUERY_TYPE -6

51 /* types of processor sets */
52 #define PS_SYSTEM 1
53 #define PS_PRIVATE 2

55 #ifndef _KERNEL
56 #ifdef __STDC__
57 extern int pset_create(psetid_t *);
58 extern int pset_destroy(psetid_t);
59 extern int pset_assign(psetid_t, processorid_t, psetid_t *);
60 extern int pset_info(psetid_t, int *, uint_t *, processorid_t *);

```

```

61 extern int pset_bind(psetid_t, idtype_t, id_t, psetid_t *);
62 extern int pset_bind_lwp(psetid_t, id_t, pid_t, psetid_t *);
63 extern int pset_getloadavg(psetid_t, double [], int);
64 extern int pset_list(psetid_t *, uint_t *);
65 extern int pset_setattr(psetid_t, uint_t);
66 extern int pset_getattr(psetid_t, uint_t *);

67 #else

69 extern int pset_create();
70 extern int pset_destroy();
71 extern int pset_assign();
72 extern int pset_info();
73 extern int pset_bind();
74 extern int pset_bind_lwp();
75 extern int pset_getloadavg();
76 extern int pset_list();
77 extern int pset_setattr();
78 extern int pset_getattr();

80 #endif /* __STDC__ */
81 #endif /* !_KERNEL */

70 #endif /* !defined(_ASM) */

72 /* system call subcodes */
73 #define PSET_CREATE 0
74 #define PSET_DESTROY 1
75 #define PSET_ASSIGN 2
76 #define PSET_INFO 3
77 #define PSET_BIND 4
78 #define PSET_GETLOADAVG 5
79 #define PSET_LIST 6
80 #define PSET_SETATTR 7
81 #define PSET_GETATTR 8
82 #define PSET_ASSIGN_FORCED 9
83 #define PSET_BIND_LWP 10

85 /* attribute bits */
86 #define PSET_NOESCAPE 0x0001

88 #ifdef __cplusplus
89 }
_____unchanged_portion_omitted_____

```

new/usr/src/uts/common/sys/reboot.h

1

```
*****
2767 Sat Aug  2 23:27:25 2014
new/usr/src/uts/common/sys/reboot.h
remove support for non-ANSI compilation
*****
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27 */

29 #ifndef _SYS_REBOOT_H
30 #define _SYS_REBOOT_H

32 #ifndef _ASM
33 #include <sys/types.h>
34 #endif

36 #ifdef __cplusplus
37 extern "C" {
38 #endif

40 /*
41  * Boot flags and flags to "reboot" system call.
42  *
43  * Not all of these necessarily apply to all machines.
44  */
45 #define RB_AUTOBOOT    0        /* flags for system auto-booting itself */

47 #define RB_ASKNAME      0x00000001 /* prompt for boot file name */
48 #define RB_SINGLE      0x00000002 /* reboot to single user only */
49 #define RB_NOSYNC      0x00000004 /* dont sync before reboot */
50 #define RB_HALT        0x00000008 /* don't reboot, just halt */
51 #define RB_INITNAME    0x00000010 /* name given for /etc/init */
52 #define RB_NOBOOTRC    0x00000020 /* don't run /etc/rc.boot */
53 #define RB_DEBUG       0x00000040 /* being run under debugger */
54 #define RB_DUMP        0x00000080 /* dump system core */
55 #define RB_WRITABLE    0x00000100 /* mount root read/write */
56 #define RB_STRING      0x00000200 /* pass boot args to prom monitor */
57 #define RB_CONFIG      0x00000800 /* pass to init on a boot -c */
58 #define RB_RECONFIG    0x00001000 /* pass to init on a boot -r */
59 #define RB_VERBOSE     0x00002000 /* set for chatty boot */
```

new/usr/src/uts/common/sys/reboot.h

2

```
60 #define RB_FORTHDEBUG 0x00004000 /* load forthdebug module */
61 #define RB_FORTHDEBUGDBP 0x00008000 /* load forthdebug, enable def bpt */
62 #define RB_KMDB        0x00020000 /* load kmdb during boot */
63 #define RB_NOBOOTCLUSTER 0x00040000 /* don't boot as a cluster */
64 #define RB_DEBUGENTER 0x00080000 /* enter the debugger at boot */

66 #ifndef _ASM

68 #if defined(__STDC__)
68 extern int reboot(int, char *);
70 #else
71 extern int reboot();
72 #endif

74 #if defined(_KERNEL)

74 extern int boothowto;

74 #if defined(_BOOT)
75 extern void bootflags(char *, size_t);
76 #else
77 struct bootops;
78 extern void bootflags(struct bootops *);
79 #endif /* _BOOT */

81 #endif /* _KERNEL */

83 #endif /* _ASM */

85 #ifdef __cplusplus
86 }
_____unchanged_portion_omitted_____
```

new/usr/src/uts/common/sys/resource.h

1

```
*****
7476 Sat Aug 2 23:27:25 2014
new/usr/src/uts/common/sys/resource.h
remove support for non-ANSI compilation
*****
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36 * University Acknowledgment- Portions of this document are derived from
37 * software developed by the University of California, Berkeley, and its
38 * contributors.
39 */

41 #ifndef _SYS_RESOURCE_H
42 #define _SYS_RESOURCE_H

42 #pragma ident      "%Z%M% %I%      %E% SMI"

44 #include <sys/feature_tests.h>

46 #include <sys/types.h>
47 #include <sys/time.h>

49 #ifdef __cplusplus
50 extern "C" {
51 #endif

53 /*
54 * Process priority specifications
55 */
56 #define PRIO_PROCESS      0
57 #define PRIO_PGRP        1
58 #define PRIO_USER         2
59 #define PRIO_GROUP        3
```

new/usr/src/uts/common/sys/resource.h

2

```
60 #define PRIO_SESSION      4
61 #define PRIO_LWP          5
62 #define PRIO_TASK         6
63 #define PRIO_PROJECT      7
64 #define PRIO_ZONE         8
65 #define PRIO_CONTRACT     9

67 /*
68  * Resource limits
69 */
70 #define RLIMIT_CPU         0          /* cpu time in seconds */
71 #define RLIMIT_FSIZE      1          /* maximum file size */
72 #define RLIMIT_DATA       2          /* data size */
73 #define RLIMIT_STACK      3          /* stack size */
74 #define RLIMIT_CORE       4          /* core file size */
75 #define RLIMIT_NOFILE     5          /* file descriptors */
76 #define RLIMIT_VMEM       6          /* maximum mapped memory */
77 #define RLIMIT_AS         RLIMIT_VMEM

79 #define RLIM_NLIMITS      7          /* number of resource limits */

81 #if defined(_LP64)

83 typedef unsigned long      rlim_t;

85 #define RLIM_INFINITY     (-31)
86 #define RLIM_SAVED_MAX   (-21)
87 #define RLIM_SAVED_CUR   (-11)

89 #else /* _LP64 */

91 /*
92  * The definitions of the following types and constants differ between the
93  * regular and large file compilation environments.
94 */
95 #if _FILE_OFFSET_BITS == 32

97 typedef unsigned long      rlim_t;

99 #define RLIM_INFINITY     0x7fffffff
100 #define RLIM_SAVED_MAX   0x7fffffff
101 #define RLIM_SAVED_CUR   0x7fffffff

103 #else /* _FILE_OFFSET_BITS == 32 */

105 typedef u_longlong_t      rlim_t;

107 #define RLIM_INFINITY     ((rlim_t)-3)
108 #define RLIM_SAVED_MAX   ((rlim_t)-2)
109 #define RLIM_SAVED_CUR   ((rlim_t)-1)

111 #endif /* _FILE_OFFSET_BITS == 32 */

113 #endif /* _LP64 */

115 #if defined(_SYSCALL32)

117 /* Kernel's view of user ILP32 rlimits */

119 typedef uint32_t          rlim32_t;

121 #define RLIM32_INFINITY   0x7fffffff
122 #define RLIM32_SAVED_MAX  0x7fffffff
123 #define RLIM32_SAVED_CUR  0x7fffffff

125 struct rlimit32 {
```

```

126     rlim32_t      rlim_cur;    /* current limit */
127     rlim32_t      rlim_max;    /* maximum value for rlim_cur */
128 };
_____unchanged_portion_omitted_____

216 #endif /* _SYSCALL32 */

219 #ifdef _KERNEL

221 #include <sys/model.h>

223 struct proc;

225 #else

227 #define RUSAGE_SELF      0
228 #define RUSAGE_LWP      1
229 #define RUSAGE_CHILDREN -1

232 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
233 /*
234  * large file compilation environment setup
235  */
236 #ifdef __PRAGMA_REDEFINE_EXTNAME
237 #pragma redefine_extname      setrlimit      setrlimit64
238 #pragma redefine_extname      getrlimit      getrlimit64
239 #else
240 #define setrlimit              setrlimit64
241 #define getrlimit              getrlimit64
242 #define rlimit                 rlimit64
243 #endif
244 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

246 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
247 /*
248  * In the LP64 compilation environment, map large file interfaces
249  * back to native versions where possible.
250  */
251 #ifdef __PRAGMA_REDEFINE_EXTNAME
252 #pragma redefine_extname      setrlimit64      setrlimit
253 #pragma redefine_extname      getrlimit64      getrlimit
254 #else
255 #define setrlimit64            setrlimit
256 #define getrlimit64            getrlimit
257 #define rlimit64              rlimit
258 #endif
259 #endif /* _LP64 && _LARGEFILE64_SOURCE */

261 #if defined(__STDC__)

261 extern int setrlimit(int, const struct rlimit *);
262 extern int getrlimit(int, struct rlimit *);

264 /* transitional large file interfaces */
265 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
266     !defined(__PRAGMA_REDEFINE_EXTNAME))
267 extern int setrlimit64(int, const struct rlimit64 *);
268 extern int getrlimit64(int, struct rlimit64 *);
269 #endif /* _LARGEFILE64_SOURCE... */

271 extern int getpriority(int, id_t);
272 extern int setpriority(int, id_t, int);
273 extern int getrusage(int, struct rusage *);

```

```

277 #else /* __STDC__ */

279 extern int getrlimit();
280 extern int setrlimit();

282 /* transitional large file interfaces */
283 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
284     !defined(__PRAGMA_REDEFINE_EXTNAME))
285 extern int setrlimit64();
286 extern int getrlimit64();
287 #endif /* _LARGEFILE64_SOURCE... */

289 extern int getpriority();
290 extern int setpriority();
291 extern int getrusage();

293 #endif /* __STDC__ */

275 #endif /* _KERNEL */

277 #ifdef __cplusplus
278 }
_____unchanged_portion_omitted_____

```



```

*****
23060 Sat Aug 2 23:27:25 2014
new/usr/src/uts/common/sys/scsi/impl/commands.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 * Copyright (c) 1990, 2010, Oracle and/or its affiliates. All rights reserved.
25 */
27 #ifndef _SYS_SCSI_IMPL_COMMANDS_H
28 #define _SYS_SCSI_IMPL_COMMANDS_H
30 #ifdef __cplusplus
31 extern "C" {
32 #endif
34 /*
35  * Implementation dependent command definitions.
36  * This file is included by <sys/scsi/generic/commands.h>
37  */
39 /*
40  * Implementation dependent view of a SCSI command descriptor block
41  */
43 /*
44  * Standard SCSI control blocks definitions.
45  *
46  * These go in or out over the SCSI bus.
47  *
48  * The first 8 bits of the command block are the same for all
49  * defined command groups. The first byte is an operation which consists
50  * of a command code component and a group code component.
51  *
52  * The group code determines the length of the rest of the command.
53  * Group 0 commands are 6 bytes, Group 1 and 2 are 10 bytes, Group 4
54  * are 16 bytes, and Group 5 are 12 bytes. Groups 3 is Reserved.
55  * Groups 6 and 7 are Vendor Unique.
56  */
57 #define CDB_SIZE CDB_GROUP5 /* deprecated, do not use */
58 #define SCSI_CDB_SIZE CDB_GROUP4 /* sizeof (union scsi_cdb) */
61 union scsi_cdb { /* scsi command description block */

```

```

62 struct {
63     uchar_t cmd; /* cmd code (byte 0) */
64 #if defined(_BIT_FIELDS_LTOH)
65     uchar_t tag :5; /* rest of byte 1 */
66     uchar_t lun :3; /* lun (byte 1) (reserved in SCSI-3) */
67 #elif defined(_BIT_FIELDS_HTOH)
68     uchar_t lun :3; /* lun (byte 1) (reserved in SCSI-3) */
69     tag :5; /* rest of byte 1 */
70 #else
71 #error One of _BIT_FIELDS_LTOH or _BIT_FIELDS_HTOH must be defined
72 #endif /* _BIT_FIELDS_LTOH */
73     union {
75         uchar_t scsi[SCSI_CDB_SIZE-2];
76         /*
77          * G R O U P 0 F O R M A T (6 bytes)
78          */
79 #define scc_cmd cdb_un.cmd
80 #define scc_lun cdb_un.lun
81 #define g0_addr2 cdb_un.tag
82 #define g0_addr1 cdb_un.sg.g0.addr1
83 #define g0_addr0 cdb_un.sg.g0.addr0
84 #define g0_count0 cdb_un.sg.g0.count0
85 #define g0_vu_1 cdb_un.sg.g0.vu_57
86 #define g0_vu_0 cdb_un.sg.g0.vu_56
87 #define g0_naca cdb_un.sg.g0.naca
88 #define g0_flag cdb_un.sg.g0.flag
89 #define g0_link cdb_un.sg.g0.link
90     /*
91      * defines for SCSI tape cdb.
92      */
93 #define t_code cdb_un.tag
94 #define high_count cdb_un.sg.g0.addr1
95 #define mid_count cdb_un.sg.g0.addr0
96 #define low_count cdb_un.sg.g0.count0
97     struct scsi_g0 {
98         uchar_t addr1; /* middle part of address */
99         uchar_t addr0; /* low part of address */
100        uchar_t count0; /* usually block count */
101 #if defined(_BIT_FIELDS_LTOH)
102        uchar_t link :1; /* another command follows */
103        uchar_t flag :1; /* interrupt when done */
104        uchar_t naca :1; /* normal ACA */
105        uchar_t rsvd :3; /* reserved */
106        uchar_t vu_56 :1; /* vendor unique (byte 5 bit6) */
107        uchar_t vu_57 :1; /* vendor unique (byte 5 bit7) */
108 #elif defined(_BIT_FIELDS_HTOH)
109        uchar_t vu_57 :1; /* vendor unique (byte 5 bit 7) */
110        uchar_t vu_56 :1; /* vendor unique (byte 5 bit 6) */
111        uchar_t rsvd :3; /* reserved */
112        uchar_t naca :1; /* normal ACA */
113        uchar_t flag :1; /* interrupt when done */
114        uchar_t link :1; /* another command follows */
115 #else
116 #error One of _BIT_FIELDS_LTOH or _BIT_FIELDS_HTOH must be defined
117 #endif /* _BIT_FIELDS_LTOH */
118     } g0;
121     /*
122     * G R O U P 1, 2 F O R M A T (10 byte)
123     */
124 #define g1_reladdr cdb_un.tag
125 #define g1_rsvd0 cdb_un.sg.g1.rsvd1
126 #define g1_addr3 cdb_un.sg.g1.addr3 /* msb */
127 #define g1_addr2 cdb_un.sg.g1.addr2

```

```

128 #define      g1_addr1      cdb_un.sg.g1.addr1
129 #define      g1_addr0      cdb_un.sg.g1.addr0      /* lsb */
130 #define      g1_count1     cdb_un.sg.g1.count1     /* msb */
131 #define      g1_count0     cdb_un.sg.g1.count0     /* lsb */
132 #define      g1_vu_1      cdb_un.sg.g1.vu_97
133 #define      g1_vu_0      cdb_un.sg.g1.vu_96
134 #define      g1_naca      cdb_un.sg.g1.naca
135 #define      g1_flag      cdb_un.sg.g1.flag
136 #define      g1_link      cdb_un.sg.g1.link
137
138 struct scsi_g1 {
139     uchar_t  addr3; /* most sig. byte of address */
140     uchar_t  addr2;
141     uchar_t  addr1;
142     uchar_t  addr0;
143     uchar_t  rsvd1; /* reserved (byte 6) */
144     uchar_t  count1; /* transfer length (msb) */
145     uchar_t  count0; /* transfer length (lsb) */
146 #if defined(_BIT_FIELDS_LTOH)
147     uchar_t  link      :1; /* another command follows */
148     uchar_t  flag      :1; /* interrupt when done */
149     uchar_t  naca      :1; /* normal ACA */
150     uchar_t  rsvd0     :3; /* reserved */
151     uchar_t  vu_96     :1; /* vendor unique (byte 9 bit6) */
152     uchar_t  vu_97     :1; /* vendor unique (byte 9 bit7) */
153 #elif defined(_BIT_FIELDS_HTOH)
154     uchar_t  vu_97     :1; /* vendor unique (byte 9 bit 7) */
155     uchar_t  vu_96     :1; /* vendor unique (byte 9 bit 6) */
156     uchar_t  rsvd0     :3; /* reserved */
157     uchar_t  naca      :1; /* normal ACA */
158     uchar_t  flag      :1; /* interrupt when done */
159     uchar_t  link      :1; /* another command follows */
160 #else
161 #error One of _BIT_FIELDS_LTOH or _BIT_FIELDS_HTOH must be defined
162 #endif /* _BIT_FIELDS_LTOH */
163 } g1;
164
165 /*
166 *      G R O U P   4   F O R M A T   (16 byte)
167 */
168 #define      g4_reladdr     cdb_un.tag
169 #define      g4_addr3      cdb_un.sg.g4.addr3      /* msb */
170 #define      g4_addr2      cdb_un.sg.g4.addr2
171 #define      g4_addr1      cdb_un.sg.g4.addr1
172 #define      g4_addr0      cdb_un.sg.g4.addr0      /* lsb */
173 #define      g4_addtl_cdb_data3 cdb_un.sg.g4.addtl_cdb_data3
174 #define      g4_addtl_cdb_data2 cdb_un.sg.g4.addtl_cdb_data2
175 #define      g4_addtl_cdb_data1 cdb_un.sg.g4.addtl_cdb_data1
176 #define      g4_addtl_cdb_data0 cdb_un.sg.g4.addtl_cdb_data0
177 #define      g4_count3     cdb_un.sg.g4.count3     /* msb */
178 #define      g4_count2     cdb_un.sg.g4.count2
179 #define      g4_count1     cdb_un.sg.g4.count1
180 #define      g4_count0     cdb_un.sg.g4.count0     /* lsb */
181 #define      g4_rsvd0      cdb_un.sg.g4.rsvd1
182 #define      g4_vu_1      cdb_un.sg.g4.vu_157
183 #define      g4_vu_0      cdb_un.sg.g4.vu_156
184 #define      g4_naca      cdb_un.sg.g4.naca
185 #define      g4_flag      cdb_un.sg.g4.flag
186 #define      g4_link      cdb_un.sg.g4.link
187
188 struct scsi_g4 {
189     uchar_t  addr3; /* most sig. byte of address */
190     uchar_t  addr2;
191     uchar_t  addr1;
192     uchar_t  addr0;
193     uchar_t  addtl_cdb_data3;
194     uchar_t  addtl_cdb_data2;
195     uchar_t  addtl_cdb_data1;

```

```

194     uchar_t  addtl_cdb_data0;
195     uchar_t  count3; /* transfer length (msb) */
196     uchar_t  count2;
197     uchar_t  count1;
198     uchar_t  count0; /* transfer length (lsb) */
199     uchar_t  rsvd1; /* reserved */
200 #if defined(_BIT_FIELDS_LTOH)
201     uchar_t  link      :1; /* another command follows */
202     uchar_t  flag      :1; /* interrupt when done */
203     uchar_t  naca      :1; /* normal ACA */
204     uchar_t  rsvd0     :3; /* reserved */
205     uchar_t  vu_156    :1; /* vendor unique (byte 15 bit6) */
206     uchar_t  vu_157    :1; /* vendor unique (byte 15 bit7) */
207 #elif defined(_BIT_FIELDS_HTOH)
208     uchar_t  vu_157    :1; /* vendor unique (byte 15 bit 7) */
209     uchar_t  vu_156    :1; /* vendor unique (byte 15 bit 6) */
210     uchar_t  rsvd0     :3; /* reserved */
211     uchar_t  naca      :1; /* normal ACA */
212     uchar_t  flag      :1; /* interrupt when done */
213     uchar_t  link      :1; /* another command follows */
214 #else
215 #error One of _BIT_FIELDS_LTOH or _BIT_FIELDS_HTOH must be defined
216 #endif /* _BIT_FIELDS_LTOH */
217 } g4;
218
219 /*
220 *      G R O U P   5   F O R M A T   (12 byte)
221 */
222 #define      scc5_reladdr   cdb_un.tag
223 #define      scc5_addr3     cdb_un.sg.g5.addr3      /* msb */
224 #define      scc5_addr2     cdb_un.sg.g5.addr2
225 #define      scc5_addr1     cdb_un.sg.g5.addr1
226 #define      scc5_addr0     cdb_un.sg.g5.addr0     /* lsb */
227 #define      scc5_count3    cdb_un.sg.g5.count3     /* msb */
228 #define      scc5_count2    cdb_un.sg.g5.count2
229 #define      scc5_count1    cdb_un.sg.g5.count1
230 #define      scc5_count0    cdb_un.sg.g5.count0     /* lsb */
231 #define      scc5_rsvd0     cdb_un.sg.g5.rsvd1
232 #define      scc5_vu_1     cdb_un.sg.g5.v117
233 #define      scc5_vu_0     cdb_un.sg.g5.v116
234 #define      scc5_naca     cdb_un.sg.g5.naca
235 #define      scc5_flag     cdb_un.sg.g5.flag
236 #define      scc5_link     cdb_un.sg.g5.link
237
238 struct scsi_g5 {
239     uchar_t  addr3; /* most sig. byte of address */
240     uchar_t  addr2;
241     uchar_t  addr1;
242     uchar_t  addr0;
243     uchar_t  count3; /* most sig. byte of count */
244     uchar_t  count2;
245     uchar_t  count1;
246     uchar_t  count0;
247     uchar_t  rsvd1; /* reserved */
248 #if defined(_BIT_FIELDS_LTOH)
249     uchar_t  link      :1; /* another command follows */
250     uchar_t  flag      :1; /* interrupt when done */
251     uchar_t  naca      :1; /* normal ACA */
252     uchar_t  rsvd0     :3; /* reserved */
253     uchar_t  vu_116    :1; /* vendor unique (byte 11 bit6) */
254     uchar_t  vu_117    :1; /* vendor unique (byte 11 bit7) */
255 #elif defined(_BIT_FIELDS_HTOH)
256     uchar_t  vu_117    :1; /* vendor unique (byte 11 bit 7) */
257     uchar_t  vu_116    :1; /* vendor unique (byte 11 bit 6) */
258     uchar_t  rsvd0     :3; /* reserved */
259     uchar_t  naca      :1; /* normal ACA */
260     uchar_t  flag      :1; /* interrupt when done */

```

```
260         uchar_t link    :1; /* another command follows */
261 #else
262 #error One of _BIT_FIELDS_LTOH or _BIT_FIELDS_HTOH must be defined
263 #endif /* _BIT_FIELDS_LTOH */
264         } g5;
265         } sg;
266     } cdb_un;
267     uchar_t cdb_opaque[SCSI_CDB_SIZE]; /* addressed as opaque char array */
268     uint_t cdb_long[SCSI_CDB_SIZE / sizeof (uint_t)]; /* as a word array */
269 };
```

unchanged portion omitted

```
665 #ifdef _KERNEL
```

```
667 /*
668  * Functional versions of the above macros, and other functions.
669  * the makecom functions have been deprecated. Please use
670  * scsi_setup_cdb()
671  */
```

```
672 #ifdef __STDC__
```

```
673 extern void    makecom_g0(struct scsi_pkt *pkt, struct scsi_device *devp,
674                          int flag, int cmd, int addr, int cnt);
675 extern void    makecom_g0_s(struct scsi_pkt *pkt, struct scsi_device *devp,
676                             int flag, int cmd, int cnt, int fixbit);
677 extern void    makecom_g1(struct scsi_pkt *pkt, struct scsi_device *devp,
678                             int flag, int cmd, int addr, int cnt);
679 extern void    makecom_g5(struct scsi_pkt *pkt, struct scsi_device *devp,
680                             int flag, int cmd, int addr, int cnt);
681 extern int     scsi_setup_cdb(union scsi_cdb *cdbp, uchar_t cmd, uint_t addr,
682                               uint_t cnt, uint_t addtl_cdb_data);
```

```
684 #else /* __STDC__ */
```

```
686 extern void    makecom_g0();
687 extern void    makecom_g0_s();
688 extern void    makecom_g1();
689 extern void    makecom_g5();
690 extern int     scsi_setup_cdb();
```

```
692 #endif /* __STDC__ */
```

```
684 #endif /* _KERNEL */
```

```
686 #ifdef __cplusplus
687 }
```

unchanged portion omitted

new/usr/src/uts/common/sys/scsi/impl/scsi\_reset\_notify.h

1

```
*****
2122 Sat Aug 2 23:27:25 2014
new/usr/src/uts/common/sys/scsi/impl/scsi_reset_notify.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright (c) 1998 by Sun Microsystems, Inc.
26  * All rights reserved.
27  */

29 #ifndef _SYS_SCSI_RESET_NOTIFY_H
30 #define _SYS_SCSI_RESET_NOTIFY_H

32 #include <sys/note.h>
33 #include <sys/scsi/scsi_types.h>

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 /*
40  * SCSI Control Information for Reset Notification.
41  */

43 /*
44  * adapter drivers use the following structure to record the notification
45  * requests from target drivers.
46  */
47 struct scsi_reset_notify_entry {
48     struct scsi_address      *ap;
49     void                    (*callback)(caddr_t);
50     caddr_t                 arg;
51     struct scsi_reset_notify_entry *next;
52 };

54 #ifdef __lock_lint
55 _NOTE(SCHEME_PROTECTS_DATA("protected by lock passed as arg",
56     scsi_reset_notify_entry::ap
57     scsi_reset_notify_entry::callback
58     scsi_reset_notify_entry::arg
59     scsi_reset_notify_entry::next))

```

new/usr/src/uts/common/sys/scsi/impl/scsi\_reset\_notify.h

2

```
60 #endif

62 #ifdef _KERNEL
63 #ifdef __STDC__
64 extern int scsi_hba_reset_notify_setup(struct scsi_address *, int,
65     void (*)(caddr_t), caddr_t, kmutex_t *,
66     struct scsi_reset_notify_entry **);
67 extern void scsi_hba_reset_notify_tear_down(
68     struct scsi_reset_notify_entry *listp);
69 extern void scsi_hba_reset_notify_callback(kmutex_t *mutex,
70     struct scsi_reset_notify_entry **listp);
71 #else /* __STDC__ */
72 extern int scsi_hba_reset_notify_setup();
73 extern void scsi_hba_reset_notify_tear_down();
74 extern void scsi_hba_reset_notify_callback();
75 #endif /* __STDC__ */

71 #endif /* _KERNEL */

73 #ifdef __cplusplus
74 }
_____unchanged_portion_omitted_

```

new/usr/src/uts/common/sys/select.h

1

```
*****
5222 Sat Aug 2 23:27:25 2014
new/usr/src/uts/common/sys/select.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 2010 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */
29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved      */
32 /*
33 * University Copyright- Copyright (c) 1982, 1986, 1988
34 * The Regents of the University of California
35 * All Rights Reserved
36 *
37 * University Acknowledgment- Portions of this document are derived from
38 * software developed by the University of California, Berkeley, and its
39 * contributors.
40 */
42 #ifndef _SYS_SELECT_H
43 #define _SYS_SELECT_H
45 #include <sys/feature_tests.h>
47 #ifndef _KERNEL
48 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
49 #include <sys/time_impl.h>
50 #endif
51 #include <sys/time.h>
52 #endif /* _KERNEL */
54 #ifdef __cplusplus
55 extern "C" {
56 #endif
59 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
60 /*
61 * The sigset_t type is defined in <sys/signal.h> and duplicated
```

new/usr/src/uts/common/sys/select.h

2

```
62 * in <sys/ucontext.h> as a result of XPG4v2 requirements. XPG6
63 * now allows the visibility of signal.h in this header, however
64 * an order of inclusion problem occurs as a result of inclusion
65 * of <sys/select.h> in <signal.h> under certain conditions.
66 * Rather than include <sys/signal.h> here, we've duplicated
67 * the sigset_t type instead. This type is required for the XPG6
68 * introduced pselect() function also declared in this header.
69 */
70 #ifndef _SIGSET_T
71 #define _SIGSET_T
72 typedef struct {
73     unsigned int    __sigbits[4];
74 } sigset_t;
75
76 unchanged portion omitted
141 #define FD_SET(__n, __p)      ((__p)->fds_bits[(__n)/FD_NFDBITS] |= \
142     (1ul << ((__n) % FD_NFDBITS)))
144 #define FD_CLR(__n, __p)      ((__p)->fds_bits[(__n)/FD_NFDBITS] &= \
145     ~(1ul << ((__n) % FD_NFDBITS)))
147 #define FD_ISSET(__n, __p)    (((__p)->fds_bits[(__n)/FD_NFDBITS] & \
148     (1ul << ((__n) % FD_NFDBITS))) != 0)
150 #ifndef _KERNEL
151 #define FD_ZERO(p)            bzero((p), sizeof (*(p)))
152 #else
153 #define FD_ZERO(__p)         (void) memset((__p), 0, sizeof (*(__p)))
154 #endif /* _KERNEL */
156 #ifndef _KERNEL
157 #ifdef __STDC__
158 extern int select(int, fd_set *_RESTRICT_KYWD, fd_set *_RESTRICT_KYWD,
159     fd_set *_RESTRICT_KYWD, struct timeval *_RESTRICT_KYWD);
160 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
161 extern int pselect(int, fd_set *_RESTRICT_KYWD, fd_set *_RESTRICT_KYWD,
162     fd_set *_RESTRICT_KYWD, const struct timespec *_RESTRICT_KYWD,
163     const sigset_t *_RESTRICT_KYWD);
164 #endif
165 #else
166 extern int select();
167 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG6) || defined(__EXTENSIONS__)
168 extern int pselect();
169 #endif
170 #endif /* __STDC__ */
166 #endif /* _KERNEL */
168 #ifdef __cplusplus
169 }
170
171 unchanged portion omitted
```

new/usr/src/uts/common/sys/sem.h

1

```
*****
2994 Sat Aug 2 23:27:25 2014
new/usr/src/uts/common/sys/sem.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
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19 *
20 * CDDL HEADER END
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22 /*
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27  */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
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33 #ifndef _SYS_SEM_H
34 #define _SYS_SEM_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"

36 #include <sys/ipc.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /*
43  * IPC Semaphore Facility.
44  */

46 /*
47  * Implementation Constants.
48  */

50 /*
51  * Permission Definitions.
52  */

54 #define SEM_A  0200      /* alter permission */
55 #define SEM_R  0400      /* read permission */

57 /*
58  * Semaphore Operation Flags.
59  */
```

new/usr/src/uts/common/sys/sem.h

2

```
61 #define SEM_UNDO      010000      /* set up adjust on exit entry */

63 /*
64  * Semctl Command Definitions.
65  */

67 #define GETNCNT 3      /* get semncnt */
68 #define GETPID  4      /* get sempid */
69 #define GETVAL  5      /* get semval */
70 #define GETALL  6      /* get all semval's */
71 #define GETZCNT 7      /* get semzcnt */
72 #define SETVAL  8      /* set semval */
73 #define SETALL  9      /* set all semval's */

75 /*
76  * Structure Definitions.
77  */

79 struct semid_ds {
80     struct ipc_perm sem_perm;      /* operation permission struct */
81     struct sem      *sem_base;     /* ptr to first semaphore in set */
82     ushort_t        sem_nsems;     /* # of semaphores in set */
83 #if defined(_LP64)
84     time_t          sem_otime;     /* last semop time */
85     time_t          sem_ctime;     /* last change time */
86 #else /* _LP64 */
87     time_t          sem_otime;     /* last semop time */
88     int32_t         sem_pad1;     /* reserved for time_t expansion */
89     time_t          sem_ctime;     /* last change time */
90     int32_t         sem_pad2;     /* time_t expansion */
91 #endif /* _LP64 */
92     int             sem_binary;    /* flag indicating semaphore type */
93     long            sem_pad3[3];   /* reserve area */
94 };

unchanged_portion_omitted_

105 #if !defined(_KERNEL)
106 #if defined(__STDC__)
106 int semctl(int, int, int, ...);
107 int semget(key_t, int, int);
108 int semids(int *, uint_t, uint_t *);
109 int semop(int, struct sembuf *, size_t);
110 #if defined(__EXTENSIONS__) || !defined(_XOPEN_SOURCE)
111 int semtimedop(int, struct sembuf *, size_t, const struct timespec *);
112 #endif
114 #else /* __STDC__ */
115 int semctl();
116 int semget();
117 int semids();
118 int semop();
119 int semtimedop();
120 #endif /* __STDC__ */
113 #endif /* !_KERNEL */

115 #ifdef __cplusplus
116 }

unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/sendfile.h

1

\*\*\*\*\*

3844 Sat Aug 2 23:27:25 2014  
new/usr/src/uts/common/sys/sendfile.h  
remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
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22 /*
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24  *
25  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
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27  */
28
29 #ifndef _SYS_SENDFILE_H
30 #define _SYS_SENDFILE_H
31
32 #pragma ident "%Z%M% %I% %E% SMI"
33
34 #include <sys/feature_tests.h>
35
36 #ifdef __cplusplus
37 extern "C" {
38 #endif
39
40 #include <sys/types.h>
41 #include <sys/uio.h>
42
43 /*
44  * Structure used by sendfilev()
45  */
46 typedef struct sendfilevec {
47     int         sfv_fd;
48     uint_t      sfv_flag;
49     off_t       sfv_off;
50     size_t      sfv_len;
51 } sendfilevec_t;
52
53 #ifndef unchanged_portion_omitted
54
55 #if _LONG_LONG_ALIGNMENT == 8 && _LONG_LONG_ALIGNMENT_32 == 4
56 #pragma pack()
57 #endif
58
59 #endif /* !_SYSCALL32 */
60
61 /* The sfv_fd can be a file descriptor or self proc */
```

new/usr/src/uts/common/sys/sendfile.h

2

```
102 #define SFV_FD_SELF      (-2)
103
104 /* System call subcodes */
105 #define SENDFILEV        0
106 #define SENDFILEV64      1
107
108 #ifndef _KERNEL
109 /* large file compilation environment setup */
110 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
111 #ifdef __PRAGMA_REDEFINE_EXTNAME
112 #pragma redefine_extname sendfile sendfile64
113 #pragma redefine_extname sendfile sendfile64
114 #else /* __PRAGMA_REDEFINE_EXTNAME */
115 #define sendfile sendfile64
116 #define sendfile sendfile64
117 #endif /* __PRAGMA_REDEFINE_EXTNAME */
118 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */
119
120 /* In the LP64 compilation environment, the APIs are already large file */
121 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
122 #ifdef __PRAGMA_REDEFINE_EXTNAME
123 #pragma redefine_extname sendfile64 sendfile
124 #pragma redefine_extname sendfile64 sendfile
125 #else /* __PRAGMA_REDEFINE_EXTNAME */
126 #define sendfile64 sendfile
127 #define sendfile64 sendfile
128 #endif /* __PRAGMA_REDEFINE_EXTNAME */
129 #endif /* !_LP64 && _LARGEFILE64_SOURCE */
130
131 #ifdef __STDC__
132 extern ssize_t sendfile(int, const struct sendfilevec *, int, size_t *);
133 extern ssize_t sendfile(int, int, off_t *, size_t);
134 /* Transitional largefile interface */
135 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
136     !defined(__PRAGMA_REDEFINE_EXTNAME))
137 extern ssize_t sendfile64(int, const struct sendfilevec64 *, int, size_t *);
138 extern ssize_t sendfile64(int, int, off_t *, size_t);
139 #endif
140 #else /* __STDC__ */
141 extern int sendfilev();
142 extern int sendfile();
143 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
144     !defined(__PRAGMA_REDEFINE_EXTNAME))
145 extern int sendfile64v();
146 extern int sendfile64();
147 #endif
148 #endif /* __STDC__ */
149 #endif /* _KERNEL */
150
151 #ifdef __cplusplus
152 }
153
154 #endif /* unchanged_portion_omitted */
```

new/usr/src/uts/common/sys/shm.h

1

```
*****
3988 Sat Aug 2 23:27:26 2014
new/usr/src/uts/common/sys/shm.h
remove support for non-ANSI compilation
*****
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27 */

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32 /*
33 * Portions of this source code were derived from Berkeley 4.3 BSD
34 * under license from the Regents of the University of California.
35 */

37 #ifndef _SYS_SHM_H
38 #define _SYS_SHM_H

38 #pragma ident      "%Z%M% %I%      %E% SMI"

40 #include <sys/ipc.h>

42 #ifdef __cplusplus
43 extern "C" {
44 #endif

46 /*
47 *      IPC Shared Memory Facility.
48 */

50 /*
51 *      Implementation Constants.
52 */
53 #if (defined(_KERNEL) || defined(_KMEMUSER))

55 #define SHMLBA      PAGESIZE      /* segment low boundary address multiple */
56                                /* (SHMLBA must be a power of 2) */
57 #else
58 #include <sys/unistd.h>      /* needed for _SC_PAGESIZE */
59 extern long _sysconf(int);      /* System Private interface to sysconf() */
```

new/usr/src/uts/common/sys/shm.h

2

```
60 #define SHMLBA      (_sysconf(_SC_PAGESIZE))
61 #endif /* defined(_KERNEL) || defined(_KMEMUSER) */

63 /*
64 *      Permission Definitions.
65 */
66 #define SHM_R      0400      /* read permission */
67 #define SHM_W      0200      /* write permission */

69 /*
70 *      Message Operation Flags.
71 */
72 #define SHM_RDONLY      010000 /* attach read-only (else read-write) */
73 #define SHM_RND      020000 /* round attach address to SHMLBA */
74 #define SHM_SHARE_MMU      040000 /* share VM resources such as page table */
75 #define SHM_PAGEABLE      0100000 /* pageable ISM */

77 /*
78 *      Valid flags bits for shmat shmflag argument.
79 */
80 #define SHMAT_VALID_FLAGS_MASK      \
81      (SHM_R | SHM_W | SHM_RDONLY | SHM_RND | SHM_SHARE_MMU | SHM_PAGEABLE)

83 typedef unsigned long shmatt_t;

85 /*
86 *      Structure Definitions.
87 */
88 struct shmids {
89      struct ipc_perm shm_perm;      /* operation permission struct */
90      size_t shm_segsz;      /* size of segment in bytes */
91 #if defined(_LP64) || defined(_XOPEN_SOURCE)
92      void *shm_amp;
93 #else
94      struct anon_map *shm_amp;      /* segment anon_map pointer */
95 #endif
96      ushort_t shm_lkcnt;      /* number of times it is being locked */
97      pid_t shm_lpid;      /* pid of last shmop */
98      pid_t shm_cpuid;      /* pid of creator */
99      shmatt_t shm_nattch;      /* number of attaches */
100      ulong_t shm_cnattch;      /* number of ISM attaches */
101 #if defined(_LP64)
102      time_t shm_atime;      /* last shmat time */
103      time_t shm_dtime;      /* last shmdt time */
104      time_t shm_ctime;      /* last change time */
105      int64_t shm_pad4[4];      /* reserve area */
106 #else /* _LP64 */
107      time_t shm_atime;      /* last shmat time */
108      int32_t shm_pad1;      /* reserved for time_t expansion */
109      time_t shm_dtime;      /* last shmdt time */
110      int32_t shm_pad2;      /* reserved for time_t expansion */
111      time_t shm_ctime;      /* last change time */
112      int32_t shm_pad3;      /* reserved for time_t expansion */
113      int32_t shm_pad4[4];      /* reserve area */
114 #endif /* _LP64 */
115 };

117 /*
118 *      Shared memory control operations
119 */
120 #define SHM_LOCK      3      /* Lock segment in core */
121 #define SHM_UNLOCK      4      /* Unlock segment */

123 #if !defined(_KERNEL)
124 #if defined(__STDC__)
124 int shmget(key_t, size_t, int);
```



```
125 int shmids(int *, uint_t, uint_t *);
126 int shmctl(int, int, struct shmid_ds *);
127 void *shmat(int, const void *, int);
128 #if defined(_XPG4)
129 int shmdt(const void *);
130 #else
131 int shmdt(char *);
132 #endif /* defined(_XPG4) */
134 #else /* __STDC__ */
135 int shmctl();
136 int shmget();
137 int shmids();
138 void *shmat();
139 int shmdt();
140 #endif /* __STDC__ */
133 #endif /* !defined(_KERNEL) */

135 #ifdef __cplusplus
136 }
_____unchanged_portion_omitted_____
```

```

*****
19190 Sat Aug 2 23:27:26 2014
new/usr/src/uts/common/sys/socket.h
remove support for non-ANSI compilation
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35 * University Acknowledgment- Portions of this document are derived from
36 * software developed by the University of California, Berkeley, and its
37 * contributors.
38 */
39
40 /* Copyright (c) 2013, OmniTI Computer Consulting, Inc. All rights reserved. */
41
42 #ifndef _SYS_SOCKET_H
43 #define _SYS_SOCKET_H
44
45 #include <sys/types.h>
46 #include <sys/uio.h>
47 #include <sys/feature_tests.h>
48 #include <sys/socket_impl.h>
49 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
50 #ifndef _KERNEL
51 #include <sys/netconfig.h>
52 #endif /* !_KERNEL */
53 #include <netinet/in.h>
54 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */
55
56 #ifdef __cplusplus
57 extern "C" {
58 #endif
59
60 #ifndef _SOCKLEN_T
61 #define _SOCKLEN_T

```

```

63 /*
64 * The socklen definitions are reproduced in netinet/in.h for the inet6_
65 * functions. Exposing all of sys/socket.h via netinet/in.h breaks existing
66 * applications and is not required by austin.
67 */
68 #if defined(_XPG4_2) && !defined(_XPG5) && !defined(_LP64)
69 typedef size_t      socklen_t;
70 #else
71 typedef uint32_t    socklen_t;
72 #endif /* defined(_XPG4_2) && !defined(_XPG5) && !defined(_LP64) */
73
74 #if defined(_XPG4_2) || defined(_BOOT)
75 typedef socklen_t  *_RESTRICT_KYWD Psocklen_t;
76 #else
77 typedef void       *_RESTRICT_KYWD Psocklen_t;
78 #endif /* defined(_XPG4_2) || defined(_BOOT) */
79
80 #endif /* _SOCKLEN_T */
81
82 /*
83 * Definitions related to sockets: types, address families, options.
84 */
85 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
86 #ifndef NC_TPI_CLTS
87 #define NC_TPI_CLTS      1          /* must agree with netconfig.h */
88 #define NC_TPI_COTS     2          /* must agree with netconfig.h */
89 #define NC_TPI_COTS_ORD 3          /* must agree with netconfig.h */
90 #define NC_TPI_RAW      4          /* must agree with netconfig.h */
91 #endif /* !_NC_TPI_CLTS */
92 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */
93
94 /*
95 * Types
96 */
97 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
98 #define SOCK_STREAM     NC_TPI_COTS /* stream socket */
99 #define SOCK_DGRAM      NC_TPI_CLTS /* datagram socket */
100 #define SOCK_RAW        NC_TPI_RAW  /* raw-protocol interface */
101 #else
102 #define SOCK_STREAM     2          /* stream socket */
103 #define SOCK_DGRAM      1          /* datagram socket */
104 #define SOCK_RAW        4          /* raw-protocol interface */
105 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */
106 #define SOCK_RDM        5          /* reliably-delivered message */
107 #define SOCK_SEQPACKET  6          /* sequenced packet stream */
108 #define SOCK_TYPE_MASK  0xffff    /* type reside in these bits only */
109
110 /*
111 * Flags for socket() and accept4()
112 */
113 #define SOCK_CLOEXEC    0x080000  /* like open(2) O_CLOEXEC for socket */
114 #define SOCK_NONBLOCK   0x100000  /* like O_NONBLOCK */
115 #define SOCK_NDELAY     0x200000  /* like O_NDELAY */
116
117 /*
118 * Option flags per-socket.
119 */
120 #define SO_DEBUG         0x0001    /* turn on debugging info recording */
121 #define SO_ACCEPTCONN   0x0002    /* socket has had listen() */
122 #define SO_REUSEADDR    0x0004    /* allow local address reuse */
123 #define SO_KEEPALIVE    0x0008    /* keep connections alive */
124 #define SO_DONTROUTE    0x0010    /* just use interface addresses */
125 #define SO_BROADCAST    0x0020    /* permit sending of broadcast msgs */
126 #define SO_USELOOPBACK  0x0040    /* bypass hardware when possible */
127 #define SO_LINGER        0x0080    /* linger on close if data present */

```

```

128 #define SO_OOBINLINE      0x0100          /* leave received OOB data in line */
129 #define SO_DGRAM_ERRIND  0x0200          /* Application wants delayed error */
130 #define SO_RECVUCRED      0x0400          /* Application wants ucred of sender */

132 /*
133  * Socket options are passed using a signed integer, but it is also rare
134  * for more than one to ever be passed at the same time with setsockopt
135  * and only one at a time can be retrieved with getsockopt.
136  *
137  * Since the lower numbers cannot be renumbered for compatibility reasons,
138  * it would seem that we need to start a new number space (0x40000000 -
139  * 0x7fffffff) for those that don't need to be stored as a bit flag
140  * somewhere. This limits the flag options to 30 but that seems to be
141  * plenty, anyway. 0x40000000 is reserved for future use.
142  */
143 #define SO_ATTACH_FILTER    0x40000001
144 #define SO_DETACH_FILTER    0x40000002

146 #ifdef _KERNEL
147 #define SO_SND_COPYAVOID 0x0800          /* Internal: use zero-copy */
148 #define SO_SND_BUFINFO  0x1000          /* Internal: get buffer info */
149                                     /* when doing zero-copy */

151 struct so_snd_bufinfo {
152     ushort_t      sbi_wroff;          /* Write offset */
153     ssize_t        sbi_maxblk;        /* Max size of a single mblk */
154     ssize_t        sbi_maxpsz;        /* Max total size of a mblk chain */
155     ushort_t      sbi_tail;          /* Extra space available at the end */
156 };
    unchanged portion omitted

448 #if defined(_XPG4_2) || defined(_KERNEL)
449 #if defined(__sparc)
450 /* To maintain backward compatibility, alignment needs to be 8 on sparc. */
451 #define _CMSG_HDR_ALIGNMENT 8
452 #else
453 /* for __i386 (and other future architectures) */
454 #define _CMSG_HDR_ALIGNMENT 4
455 #endif /* defined(__sparc) */
456 #endif /* defined(_XPG4_2) || defined(_KERNEL) */

458 #if defined(_XPG4_2)
459 /*
460  * The cmsg headers (and macros dealing with them) were made available as
461  * part of UNIX95 and hence need to be protected with a _XPG4_2 define.
462  */
463 #define _CMSG_DATA_ALIGNMENT (sizeof(int))
464 #define _CMSG_HDR_ALIGN(x) (((uintptr_t)(x) + _CMSG_HDR_ALIGNMENT - 1) & \
465     ~(_CMSG_HDR_ALIGNMENT - 1))
466 #define _CMSG_DATA_ALIGN(x) (((uintptr_t)(x) + _CMSG_DATA_ALIGNMENT - 1) & \
467     ~(_CMSG_DATA_ALIGNMENT - 1))
468 #define CMSG_DATA(c) \
469     ((unsigned char *)_CMSG_DATA_ALIGN((struct cmsghdr *) (c) + 1))

471 #define CMSG_FIRSTHDR(m) \
472     (((m)->msg_controllen < sizeof(struct cmsghdr)) ? \
473     (struct cmsghdr *)0 : (struct cmsghdr *)((m)->msg_control))

475 #define CMSG_NXTHDR(m, c) \
476     (((c) == 0) ? CMSG_FIRSTHDR(m) : \
477     (((uintptr_t)_CMSG_HDR_ALIGN((char *) (c) + \
478     ((struct cmsghdr *) (c)->msg_len) + sizeof(struct cmsghdr)) > \
479     (((uintptr_t)((struct msghdr *) (m)->msg_control) + \
480     ((uintptr_t)((struct msghdr *) (m)->msg_control))) ? \
481     ((struct cmsghdr *)0) : \
482     ((struct cmsghdr *)_CMSG_HDR_ALIGN((char *) (c) +

```

```

483     ((struct cmsghdr *) (c)->msg_len))))

485 /* Amount of space + padding needed for a message of length l */
486 #define CMSG_SPACE(l) \
487     ((unsigned int)_CMSG_HDR_ALIGN(sizeof(struct cmsghdr) + (l))

489 /* Value to be used in cmsg_len, does not include trailing padding */
490 #define CMSG_LEN(l) \
491     ((unsigned int)_CMSG_DATA_ALIGN(sizeof(struct cmsghdr)) + (l))

493 #endif /* _XPG4_2 */

495 #ifndef _XPG4_2
496 #ifndef __PRAGMA_REDEFINE_EXTNAME
497 #pragma redefine_extname bind __xnet_bind
498 #pragma redefine_extname connect __xnet_connect
499 #pragma redefine_extname recvmsg __xnet_recvmsg
500 #pragma redefine_extname sendmsg __xnet_sendmsg
501 #pragma redefine_extname sendto __xnet_sendto
502 #pragma redefine_extname socket __xnet_socket
503 #pragma redefine_extname socketpair __xnet_socketpair
504 #pragma redefine_extname getsockopt __xnet_getsockopt
505 #else /* __PRAGMA_REDEFINE_EXTNAME */
506 #define bind __xnet_bind
507 #define connect __xnet_connect
508 #define recvmsg __xnet_recvmsg
509 #define sendmsg __xnet_sendmsg
510 #define sendto __xnet_sendto
511 #define socket __xnet_socket
512 #define socketpair __xnet_socketpair
513 #define getsockopt __xnet_getsockopt
514 #endif /* __PRAGMA_REDEFINE_EXTNAME */

516 #endif /* _XPG4_2 */

518 #if defined(_XPG4_2) && !defined(_XPG5)
519 #ifndef __PRAGMA_REDEFINE_EXTNAME
520 #pragma redefine_extname listen __xnet_listen
521 #else /* __PRAGMA_REDEFINE_EXTNAME */
522 #define listen __xnet_listen
523 #endif /* __PRAGMA_REDEFINE_EXTNAME */
524 #endif /* (_XPG4_2) && !defined(_XPG5) */

526 #if !defined(_KERNEL) || defined(_BOOT)
527 #ifndef __STDC__
528 extern int accept(int, struct sockaddr *_RESTRICT_KYWD, Psocklen_t);
529 extern int accept4(int, struct sockaddr *_RESTRICT_KYWD, Psocklen_t, int);
530 extern int bind(int, const struct sockaddr *, socklen_t);
531 extern int connect(int, const struct sockaddr *, socklen_t);
532 extern int getpeername(int, struct sockaddr *_RESTRICT_KYWD, Psocklen_t);
533 extern int getsockname(int, struct sockaddr *_RESTRICT_KYWD, Psocklen_t);
534 extern int getsockopt(int, int, int, void *_RESTRICT_KYWD, Psocklen_t);
535 extern int listen(int, int); /* XXX - fixme??? where do I go */
536 extern int socketpair(int, int, int, int *);
537 extern ssize_t recv(int, void *, size_t, int);
538 extern struct sockaddr *_RESTRICT_KYWD, Psocklen_t);
539 extern ssize_t recvmsg(int, struct msghdr *, int);
540 extern ssize_t send(int, const void *, size_t, int);
541 extern ssize_t sendmsg(int, const struct msghdr *, int);
542 extern ssize_t sendto(int, const void *, size_t, int, const struct sockaddr *,
543     socklen_t);
544 extern int setsockopt(int, int, int, const void *, socklen_t);
545 extern int shutdown(int, int);
546 extern int socket(int, int, int);

```

```
548 #if !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__)
549 extern int sockatmark(int);
550 #endif /* !defined(_XPG4_2) || defined(_XPG6) || defined(__EXTENSIONS__) */
550 #else /* __STDC__ */
551 extern int accept();
552 extern int accept4();
553 extern int bind();
554 extern int connect();
555 extern int getpeername();
556 extern int getsockname();
557 extern int getsockopt();
558 extern int listen();
559 extern int recv();
560 extern int recvfrom();
561 extern int send();
562 extern int sendto();
563 extern int setsockopt();
564 extern int sockatmark();
565 extern int socket();
566 extern int recvmsg();
567 extern int sendmsg();
568 extern int shutdown();
569 extern int socketpair();
570 #endif /* __STDC__ */
551 #endif /* !defined(_KERNEL) || defined(_BOOT) */

553 #ifdef __cplusplus
554 }
    unchanged_portion_omitted

```

```

*****
14494 Sat Aug  2 23:27:26 2014
new/usr/src/uts/common/sys/stat.h
remove support for non-ANSI compilation
*****
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16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  * Copyright (c) 1999, 2010, Oracle and/or its affiliates. All rights reserved.
25  */
26
27 /*      Copyright (c) 1990, 1991 UNIX System Laboratories, Inc. */
28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989, 1990 AT&T */
29 /*      All Rights Reserved */
30
31 #ifndef _SYS_STAT_H
32 #define _SYS_STAT_H
33
34 #include <sys/feature_tests.h>
35 #include <sys/types.h>
36
37 #ifdef __cplusplus
38 extern "C" {
39 #endif
40
41 /*
42  * The implementation specific header <sys/time_impl.h> includes a
43  * definition for timestruc_t needed by the stat structure. However,
44  * including either <time.h>, which includes <sys/time_impl.h>, or
45  * including <sys/time_impl.h> directly will break both X/Open and
46  * POSIX namespace. Preceding tag, structure, and structure member
47  * names with underscores eliminates the namespace breakage and at the
48  * same time, with unique type names, eliminates the possibility of
49  * timespec_t or timestruc_t naming conflicts that could otherwise
50  * result based on the order of inclusion of <sys/stat.h> and
51  * <sys/time.h>. The header <sys/time_std_impl.h> contains the
52  * standards namespace safe versions of these definitions.
53  */
54 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
55 #include <sys/time_impl.h>
56 #else
57 #include <sys/time_std_impl.h>
58 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
59
60 #define _ST_FSTYPSZ 16 /* array size for file system type name */

```

```

62 /*
63  * stat structure, used by stat(2) and fstat(2)
64  */
65
66 #if defined(_KERNEL)
67
68     /* Expanded stat structure */
69
70 #if defined(_LP64)
71
72 struct stat {
73     dev_t          st_dev;
74     ino_t          st_ino;
75     mode_t         st_mode;
76     nlink_t        st_nlink;
77     uid_t          st_uid;
78     gid_t          st_gid;
79     dev_t          st_rdev;
80     off_t          st_size;
81     timestruc_t    st_atim;
82     timestruc_t    st_mtim;
83     timestruc_t    st_ctim;
84     blksize_t      st_blksize;
85     blkcnt_t       st_blocks;
86     char           st_fstype[_ST_FSTYPSZ];
87 };
88
89     unchanged_portion_omitted
90
91 #if _LONG_LONG_ALIGNMENT == 8 && _LONG_LONG_ALIGNMENT_32 == 4
92 #pragma pack()
93 #endif
94
95 #endif /* _LP64 */
96
97 #endif /* _KERNEL */
98
99 #endif /* _SYS_STAT_H */
100
101 /* MODE MASKS */
102
103 /* de facto standard definitions */
104
105 #define S_IFMT          0xF000 /* type of file */
106 #define S_IAMB          0x1FF  /* access mode bits */
107 #define S_IFIFO         0x1000 /* fifo */
108 #define S_IFCHR         0x2000 /* character special */
109 #define S_IFDIR         0x4000 /* directory */
110 /* XENIX definitions are not relevant to Solaris */
111 #define S_IFNAM         0x5000 /* XENIX special named file */
112 #define S_INSEM         0x1    /* XENIX semaphore subtype of IFNAM */
113 #define S_INSHD         0x2    /* XENIX shared data subtype of IFNAM */
114 #define S_IFBLK         0x6000 /* block special */
115 #define S_IFREG         0x8000 /* regular */
116 #define S_IFLNK         0xA000 /* symbolic link */
117 #define S_IFSOCK        0xC000 /* socket */
118 #define S_IFDOOR        0xD000 /* door */
119 #define S_IFPORT        0xE000 /* event port */
120 #define S_ISUID         0x800  /* set user id on execution */
121 #define S_ISGID         0x400  /* set group id on execution */
122 #define S_ISVTX         0x200  /* save swapped text even after use */
123 #define S_IREAD         00400  /* read permission, owner */
124 #define S_IWRITE        00200  /* write permission, owner */
125 #define S_IXEXEC        00100  /* execute/search permission, owner */
126 #define S_ENFMT         S_ISGID /* record locking enforcement flag */
127
128 /* the following macros are for POSIX conformance */
129
130 #define S_IRWXU          00700  /* read, write, execute: owner */
131 #define S_IRUSR          00400  /* read permission: owner */
132 #define S_IWUSR          00200  /* write permission: owner */

```

```

433 #define S_IXUSR      00100 /* execute permission: owner */
434 #define S_IRWXG      00070 /* read, write, execute: group */
435 #define S_IRGRP      00040 /* read permission: group */
436 #define S_IWGRP      00020 /* write permission: group */
437 #define S_IXGRP      00010 /* execute permission: group */
438 #define S_IRWXO      00007 /* read, write, execute: other */
439 #define S_IROTH      00004 /* read permission: other */
440 #define S_IWOTH      00002 /* write permission: other */
441 #define S_IXOTH      00001 /* execute permission: other */

444 #define S_ISFIFO(mode) (((mode)&0xF000) == 0x1000)
445 #define S_ISCHR(mode)  (((mode)&0xF000) == 0x2000)
446 #define S_ISDIR(mode) (((mode)&0xF000) == 0x4000)
447 #define S_ISBLK(mode) (((mode)&0xF000) == 0x6000)
448 #define S_ISREG(mode) (((mode)&0xF000) == 0x8000)
449 #define S_ISLNK(mode) (((mode)&0xF000) == 0xa000)
450 #define S_ISSOCK(mode) (((mode)&0xF000) == 0xc000)
451 #define S_ISDOOR(mode) (((mode)&0xF000) == 0xd000)
452 #define S_ISPORT(mode) (((mode)&0xF000) == 0xe000)

454 /* POSIX.4 macros */
455 #define S_TYPEISMQ(_buf) (0)
456 #define S_TYPEISSEM(_buf) (0)
457 #define S_TYPEISSHM(_buf) (0)

459 #if defined(__i386) || (defined(__i386_COMPAT) && defined(_KERNEL))

461 /*
462  * A version number is included in the x86 SVR4 stat and mknod interfaces
463  * so that SVR4 binaries can be supported. An LP64 kernel that supports
464  * the i386 ABI need to be aware of this too.
465  */

467 #define _R3_MKNOD_VER 1 /* SVR3.0 mknod */
468 #define _MKNOD_VER 2 /* current version of mknod */
469 #define _R3_STAT_VER 1 /* SVR3.0 stat */
470 #define _STAT_VER 2 /* current version of stat */

472 #endif /* __i386 || (__i386_COMPAT && _KERNEL) */

474 #if defined(__EXTENSIONS__) || \
475     (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
476     /* || defined(_XPG7) */
477     /* for use with futimens() and utimensat() */
478     #define UTIME_NOW -1L
479     #define UTIME_OMIT -2L
480     #endif /* defined(__EXTENSIONS__) ... */

482 #if !defined(_KERNEL) || defined(_BOOT)

483 #if defined(__STDC__)

484 #if !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2) || \
485     defined(_XPG4_2) || defined(__EXTENSIONS__)
486     extern int fchmod(int, mode_t);
487     #endif /* !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2)... */

489     extern int chmod(const char *, mode_t);
490     extern int mkdir(const char *, mode_t);
491     extern int mkfifo(const char *, mode_t);
492     extern mode_t umask(mode_t);

494 /* transitional large file interfaces */
495 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
496     !defined(__PRAGMA_REDEFINE_EXTNAME))

```

```

497     extern int fstat64(int, struct stat64 *);
498     extern int stat64(const char *_RESTRICT_KYWD, struct stat64 *_RESTRICT_KYWD);
499     extern int lstat64(const char *_RESTRICT_KYWD, struct stat64 *_RESTRICT_KYWD);
500     #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) || \
501         defined(_ATFILE_SOURCE)
502     extern int fstatat64(int, const char *, struct stat64 *, int);
503     #endif /* defined (_ATFILE_SOURCE) */
504     #endif

506     #if defined(__EXTENSIONS__) || defined(_ATFILE_SOURCE) || \
507         (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
508         /* || defined(_XPG7) */
509     extern int mkdirat(int, const char *, mode_t);
510     extern int mkfifoat(int, const char *, mode_t);
511     extern int mknodat(int, const char *, mode_t, dev_t);
512     extern int fchmodat(int, const char *, mode_t, int);
513     extern int futimens(int, const struct timespec[2]);
514     extern int utimensat(int, const char *, const struct timespec[2], int);
515     #endif /* defined(__EXTENSIONS__) ... */

518 #else /* !_STDC */

520 #if !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2) || \
521     defined(_XPG4_2) || defined(__EXTENSIONS__)
522     extern int fchmod();
523     #endif /* !defined(__XOPEN_OR_POSIX) || (_POSIX_C_SOURCE > 2)... */

525     extern int chmod();
526     extern int mkdir();
527     extern int mkfifo();
528     extern mode_t umask();

530 /* transitional large file interfaces */
531 #if defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
532     !defined(__PRAGMA_REDEFINE_EXTNAME))
533     extern int fstat64();
534     extern int stat64();
535     extern int lstat64();
536     #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) || \
537         defined(_ATFILE_SOURCE)
538     extern int fstatat64();
539     #endif /* defined (_ATFILE_SOURCE) */
540     #endif

542     #if defined(__EXTENSIONS__) || defined(_ATFILE_SOURCE) || \
543         (!defined(_STRICT_STDC) && !defined(__XOPEN_OR_POSIX))
544         /* || defined(_XPG7) */
545     extern int mkdirat();
546     extern int mkfifoat();
547     extern int mknodat();
548     extern int fchmodat();
549     extern int futimens();
550     extern int utimensat();
551     #endif /* defined(__EXTENSIONS__) ... */

553 #endif /* defined(__STDC__) */

517 #include <sys/stat_impl.h>

519 #endif /* !defined(_KERNEL) */

521 #ifdef __cplusplus
522 }
523 #endif

525 #endif /* _SYS_STAT_H */

```

new/usr/src/uts/common/sys/statfs.h

1

```
*****
2246 Sat Aug 2 23:27:26 2014
new/usr/src/uts/common/sys/statfs.h
remove support for non-ANSI compilation
*****
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18 * information: Portions Copyright [yyyy] [name of copyright owner]
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25 * Copyright 1996 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */

29 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
30 /*      All Rights Reserved      */

32 #ifndef _SYS_STATFS_H
33 #define _SYS_STATFS_H

33 #pragma ident      "%Z%M% %I%      %E% SMI"

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 /*
40  * Structure returned by statfs(2) and fstatfs(2).
41  * This structure and associated system calls have been replaced
42  * by statvfs(2) and fstatvfs(2) and will be removed from the system
43  * in a near-future release.
44  */

46 struct  statfs {
47     short  f_fstyp;      /* File system type */
48     long   f_bsize;     /* Block size */
49     long   f_frsize;    /* Fragment size (if supported) */
50     long   f_blocks;    /* Total number of blocks on file system */
51     long   f_bfree;     /* Total number of free blocks */
52     ino_t  f_files;     /* Total number of file nodes (inodes) */
53     ino_t  f_ffree;     /* Total number of free file nodes */
54     char   f_fname[6];  /* Volume name */
55     char   f_fpack[6];  /* Pack name */
56 };
_____unchanged_portion_omitted_____

72 #endif /* _SYSCALL32 */
```

new/usr/src/uts/common/sys/statfs.h

2

```
74 #if !defined(_KERNEL)
74 #if defined(__STDC__) && !defined(_KERNEL)
75 int statfs(const char *, struct statfs *, int, int);
76 int fstatfs(int, struct statfs *, int, int);
77 #endif

79 #ifdef __cplusplus
80 }
_____unchanged_portion_omitted_____
```

new/usr/src/uts/common/sys/statvfs.h

1

```
*****
6982 Sat Aug 2 23:27:26 2014
new/usr/src/uts/common/sys/statvfs.h
remove support for non-ANSI compilation
*****
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23 /*      All Rights Reserved */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
29 * Use is subject to license terms.
30 */

32 #ifndef _SYS_STATVFS_H
33 #define _SYS_STATVFS_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.10 */

35 #include <sys/feature_tests.h>
36 #include <sys/types.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 /*
43  * Structure returned by statvfs(2).
44  */

46 #define _FSTYPSTZ      16
47 #if !defined(_XPG4_2) || defined(__EXTENSIONS__)
48 #ifndef FSTYPSTZ
49 #define FSTYPSTZ      _FSTYPSTZ
50 #endif
51 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

53 typedef struct statvfs {
54     unsigned long    f_bsize;      /* fundamental file system block size */
55     unsigned long    f_frsize;     /* fragment size */
56     fsblkcnt_t       f_blocks;     /* total blocks of f_frsize on fs */
57     fsblkcnt_t       f_bfree;      /* total free blocks of f_frsize */
58     fsblkcnt_t       f_bavail;     /* free blocks avail to non-superuser */

```

new/usr/src/uts/common/sys/statvfs.h

2

```
59     fsfilcnt_t       f_files;      /* total file nodes (inodes) */
60     fsfilcnt_t       f_ffree;      /* total free file nodes */
61     fsfilcnt_t       f_favail;     /* free nodes avail to non-superuser */
62     unsigned long    f_fsid;       /* file system id (dev for now) */
63     char              f_basetype[_FSTYPSTZ]; /* target fs type name, */
64                                     /* null-terminated */
65     unsigned long    f_flag;       /* bit-mask of flags */
66     unsigned long    f_namemax;    /* maximum file name length */
67     char              f_fstr[32];  /* filesystem-specific string */
68 #if !defined(_LP64)
69     unsigned long    f_filler[16]; /* reserved for future expansion */
70 #endif
71 } statvfs_t;
    unchanged_portion_omitted

146 #if _LONG_LONG_ALIGNMENT == 8 && _LONG_LONG_ALIGNMENT_32 == 4
147 #pragma pack()
148 #endif

150 #endif /* _SYSALL32 */

152 /*
153  * Flag definitions.
154  */

156 #define ST_RDONLY      0x01      /* read-only file system */
157 #define ST_NOSUID      0x02      /* does not support setuid/setgid semantics */
158 #define ST_NOTRUNC     0x04      /* does not truncate long file names */

160 #if !defined(_KERNEL)
161 /*
162  * large file compilation environment setup
163  */
164 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
165 #ifdef __PRAGMA_REDEFINE_EXTNAME
166 #pragma redefine_extname      statvfs      statvfs64
167 #pragma redefine_extname      fstatvfs     fstatvfs64
168 #else
169 #define statvfs_t              statvfs64_t
170 #define statvfs                statvfs64
171 #define fstatvfs              fstatvfs64
172 #endif
173 #endif /* !_LP64 && _FILE_OFFSET_BITS == 64 */

175 #if defined(_LP64) && defined(_LARGEFILE64_SOURCE)
176 /*
177  * In the LP64 compilation environment, map large file interfaces
178  * back to native versions where possible.
179  */
180 #ifdef __PRAGMA_REDEFINE_EXTNAME
181 #pragma redefine_extname      statvfs64     statvfs
182 #pragma redefine_extname      fstatvfs64    fstatvfs
183 #else
184 #define statvfs64_t           statvfs_t
185 #define statvfs64            statvfs
186 #define fstatvfs64          fstatvfs
187 #endif
188 #endif /* _LP64 && _LARGEFILE64_SOURCE */

191 #if defined(__STDC__)
190 int statvfs(const char *_RESTRICT_KYWD, statvfs_t *_RESTRICT_KYWD);
191 int fstatvfs(int, statvfs_t *);

193 /* transitional large file interface versions */
194 #if      defined(_LARGEFILE64_SOURCE) && !((_FILE_OFFSET_BITS == 64) && \
195         !defined(__PRAGMA_REDEFINE_EXTNAME))

```



```
196 int statvfs64(const char *_RESTRICT_KYWD, statvfs64_t *_RESTRICT_KYWD);
197 int fstatvfs64(int, statvfs64_t *);
198 #endif /* _LARGEFILE64_SOURCE... */
201 #endif /* defined(__STDC__) */
199 #endif /* !defined(_KERNEL) */

201 #ifdef __cplusplus
202 }
_____unchanged_portion_omitted_
```

```

*****
3936 Sat Aug 2 23:27:26 2014
new/usr/src/uts/common/sys/sunpm.h
remove support for non-ANSI compilation
*****
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19 * CDDL HEADER END
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21 /*
22  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23  *
24  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25  * Use is subject to license terms.
26  */

28 #ifndef _SYS_SUNPM_H
29 #define _SYS_SUNPM_H

31 /*
32  * Sun Specific Power Management definitions
33  */

35 #include <sys/isa_defs.h>
36 #include <sys/dditypes.h>
37 #include <sys/ddipropdefs.h>
38 #include <sys/devops.h>
39 #include <sys/time.h>
40 #include <sys/cmn_err.h>
41 #include <sys/ddidevmap.h>
42 #include <sys/ddi_implfuncs.h>
43 #include <sys/ddi_isa.h>
44 #include <sys/model.h>
45 #include <sys/devctl.h>

47 #ifdef __cplusplus
48 extern "C" {
49 #endif

51 #ifdef _KERNEL

53 /*
54  * Power cycle transition check is supported for SCSI and SATA devices.
55  */
56 #define DC_SCSI_FORMAT      0x1      /* SCSI */
57 #define DC_SMART_FORMAT    0x2      /* SMART */

59 #define DC_SCSI_MFR_LEN    6        /* YYYYWW */

61 struct pm_scsi_cycles {

```

```

62     int      lifemax;                /* lifetime max power cycles */
63     int      ncycles;                /* number of cycles so far */
64     char     svc_date[DC_SCSI_MFR_LEN]; /* service date YYYYWW */
65     int      flag;                   /* reserved for future */
66 };
    unchanged_portion_omitted

82 /*
83  * Power levels for devices supporting ACPI based D0, D1, D2, D3 states.
84  *
85  * Note that 0 is off in Solaris PM framework but D0 is full power
86  * for these devices.
87  */
88 #define PM_LEVEL_D3      0          /* D3 state - off */
89 #define PM_LEVEL_D2      1          /* D2 state */
90 #define PM_LEVEL_D1      2          /* D1 state */
91 #define PM_LEVEL_D0      3          /* D0 state - fully on */

93 /*
94  * Useful strings for creating pm-components property for these devices.
95  * If a device driver wishes to provide more specific description of power
96  * levels (highly recommended), it should NOT use following generic defines.
97  */
98 #define PM_LEVEL_D3_STR    "0=Device D3 State"
99 #define PM_LEVEL_D2_STR    "1=Device D2 State"
100 #define PM_LEVEL_D1_STR    "2=Device D1 State"
101 #define PM_LEVEL_D0_STR    "3=Device D0 State"

103 /*
104  * If you add or remove a function or data reference, please
105  * remember to duplicate the action below the #else clause for
106  * __STDC__.
107  */

107 #ifdef __STDC__

109 /*
110  * Generic Sun PM definitions.
111  */

112 /*
113  * These are obsolete power management interfaces, they will be removed from
114  * a subsequent release.
115  */
116 #define pm_create_components(dev_info_t *dip, int num_components);
117 int
118 pm_create_components(dev_info_t *dip, int num_components);

119 #define pm_destroy_components(dev_info_t *dip);
120 void
121 pm_destroy_components(dev_info_t *dip);

122 #define pm_set_normal_power(dev_info_t *dip, int component_number, int level);
123 void
124 pm_set_normal_power(dev_info_t *dip, int component_number, int level);

125 #define pm_get_normal_power(dev_info_t *dip, int component_number);
126 int
127 pm_get_normal_power(dev_info_t *dip, int component_number);

128 /*
129  * These are power management interfaces.
130  */

131 #define pm_busy_component(dev_info_t *dip, int component_number);
132 int

```

```
134 pm_busy_component(dev_info_t *dip, int component_number);

125 int pm_idle_component(dev_info_t *dip, int component_number);
136 int
137 pm_idle_component(dev_info_t *dip, int component_number);

127 int pm_get_current_power(dev_info_t *dip, int component, int *levelp);
139 int
140 pm_get_current_power(dev_info_t *dip, int component, int *levelp);

129 int pm_power_has_changed(dev_info_t *, int, int);
142 int
143 pm_power_has_changed(dev_info_t *, int, int);

131 int pm_trans_check(struct pm_trans_data *datap, time_t *intervalp);
145 int
146 pm_trans_check(struct pm_trans_data *datap, time_t *intervalp);

133 int pm_lower_power(dev_info_t *dip, int comp, int level);
148 int
149 pm_lower_power(dev_info_t *dip, int comp, int level);

135 int pm_raise_power(dev_info_t *dip, int comp, int level);
151 int
152 pm_raise_power(dev_info_t *dip, int comp, int level);

137 int pm_update_maxpower(dev_info_t *dip, int comp, int level);
154 int
155 pm_update_maxpower(dev_info_t *dip, int comp, int level);

157 #else /* __STDC__ */

159 /*
160  * Obsolete interfaces.
161  */
162 extern int pm_create_components();
163 extern void pm_destroy_components();
164 extern void pm_set_normal_power();
165 extern int pm_get_normal_power();

167 /*
168  * PM interfaces
169  */
170 extern int pm_busy_component();
171 extern int pm_idle_component();
172 extern int pm_get_current_power();
173 extern int pm_power_has_changed();
174 extern int pm_trans_check();
175 extern int pm_lower_power();
176 extern int pm_raise_power();
177 extern int pm_update_maxpower();

179 #endif /* __STDC__ */

139 #endif /* _KERNEL */

141 #ifdef __cplusplus
142 }
_____unchanged_portion_omitted_____
```

```

*****
      8244 Sat Aug  2 23:27:26 2014
new/usr/src/uts/common/sys/swap.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 * Copyright (c) 1987, 2010, Oracle and/or its affiliates. All rights reserved.
24 */

26 /*      Copyright (c) 1983, 1984, 1985, 1986, 1987, 1988, 1989 AT&T      */
27 /*      All Rights Reserved      */

29 /*
30 * University Copyright- Copyright (c) 1982, 1986, 1988
31 * The Regents of the University of California
32 * All Rights Reserved
33 *
34 * University Acknowledgment- Portions of this document are derived from
35 * software developed by the University of California, Berkeley, and its
36 * contributors.
37 */

39 #ifndef _SYS_SWAP_H
40 #define _SYS_SWAP_H

42 #include <sys/isa_defs.h>
43 #include <sys/feature_tests.h>
44 #include <vm/anon.h>
45 #include <sys/fs/swapnode.h>

47 #ifdef __cplusplus
48 extern "C" {
49 #endif

51 #if !defined(_LP64) && _FILE_OFFSET_BITS == 64
52 #error "Cannot use swapctl in the large files compilation environment"
53 #endif

55 /* The following are for the swapctl system call */

57 #define SC_ADD          1      /* add a specified resource for swapping */
58 #define SC_LIST        2      /* list all the swapping resources */
59 #define SC_REMOVE      3      /* remove the specified swapping resource */
60 #define SC_GETNSWP     4      /* get number of swap resources configured */
61 #define SC_AINFO       5      /* get anonymous memory resource information */

```

```

63 typedef struct swapres {
64     char    *sr_name;      /* pathname of the resource specified */
65     off_t   sr_start;     /* starting offset of the swapping resource */
66     off_t   sr_length;    /* length of the swap area */
67 } swapres_t;
    unchanged_portion_omitted

108 #endif /* _SYSCALL32 */

110 #if defined(_KERNEL)
111 extern int swapctl(int, void *, int *);
112 #if defined(_LP64) && defined(_SYSCALL32)
113 extern int swapctl32(int, void *, int *);
114 #endif /* _LP64 && _SYSCALL32 */
115 #else /* !_KERNEL */
116 #if defined(__STDC__)
117 extern int swapctl(int, void *);
118 #else
119 extern int swapctl();
120 #endif /* !_KERNEL */
121 #endif /* _SYSCALL32 */

120 /* ste_flags values */

122 #define ST_INDEL        0x01      /* Deletion of file is in progress. */
123                          /* Prevents others from deleting or */
124                          /* allocating from it */
125 #define ST_DOINGDEL    0x02      /* Set during deletion of file */
126                          /* Clearing during deletion signals */
127                          /* that you want to add the file back */
128                          /* again, and will eventually cause */
129                          /* it to be added back */

131 /*
132  * VM - virtual swap device.
133  */
134 struct swapinfo {
135     ulong_t si_soff;      /* starting offset (bytes) of file */
136     ulong_t si_eoff;     /* ending offset (bytes) of file */
137     struct vnode *si_vp;  /* vnode (commonvp if device) */
138     struct swapinfo *si_next; /* next swap area */
139     int si_allocs;      /* # of conseq. allocs from this area */
140     short si_flags;     /* flags defined below */
141     pgcnt_t si_npgs;    /* number of pages of swap space */
142     pgcnt_t si_nfpgs;   /* number of free pages of swap space */
143     int si_pnamelen;    /* swap file name length + 1 */
144     char *si_pname;     /* swap file name */
145     ssize_t si_mapsize; /* # bytes allocated for bitmap */
146     uint_t *si_swapslots; /* bitmap of slots, unset == free */
147     pgcnt_t si_hint;    /* first page to check if free */
148     ssize_t si_checkcnt; /* # of checks to find freeslot */
149     ssize_t si_alloccnt; /* used to find ave checks */
150 };
    unchanged_portion_omitted

```

new/usr/src/uts/common/sys/syscall.h

1

```
*****
13530 Sat Aug  2 23:27:27 2014
new/usr/src/uts/common/sys/syscall.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  * Copyright (c) 1989, 2010, Oracle and/or its affiliates. All rights reserved.
25  * Copyright (c) 2013 by Delphix. All rights reserved.
26  */
27
28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved      */
30
31 #ifndef _SYS_SYSCALL_H
32 #define _SYS_SYSCALL_H
33
34 #ifdef __cplusplus
35 extern "C" {
36 #endif
37
38 /*
39  *      system call numbers
40  *      syscall(SYS_xxxx, ...)
41  */
42
43 /* syscall enumeration MUST begin with 1 */
44
45 /*
46  * SunOS/SPARC uses 0 for the indirect system call SYS_syscall
47  * but this doesn't count because it is just another way
48  * to specify the real system call number.
49  */
50
51 #define SYS_syscall      0
52 #define SYS_exit        1
53 #define SYS_read        3
54 #define SYS_write       4
55 #define SYS_open        5
56 #define SYS_close       6
57 #define SYS_linkat      7
58 #define SYS_link        9
59 #define SYS_unlink     10
60 #define SYS_symlinkat  11
61 #define SYS_chdir      12
```

new/usr/src/uts/common/sys/syscall.h

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```
62 #define SYS_time        13
63 #define SYS_mknod      14
64 #define SYS_chmod      15
65 #define SYS_chown      16
66 #define SYS_brk        17
67 #define SYS_stat       18
68 #define SYS_lseek      19
69 #define SYS_getpid     20
70 #define SYS_mount      21
71 #define SYS_readlinkat 22
72 #define SYS_setuid     23
73 #define SYS_getuid     24
74 #define SYS_stime      25
75 #define SYS_pcsample   26
76 #define SYS_alarm      27
77 #define SYS_fstat     28
78 #define SYS_pause     29
79 #define SYS_stty       31
80 #define SYS_gtty       32
81 #define SYS_access     33
82 #define SYS_nice       34
83 #define SYS_statfs    35
84 #define SYS_sync       36
85 #define SYS_kill       37
86 #define SYS_fstatfs   38
87 #define SYS_pgrpsys   39
88 /*
89  * subcodes:
90  *      getpgrp()          :: syscall(39,0)
91  *      setpgrp()          :: syscall(39,1)
92  *      getsid(pid)       :: syscall(39,2,pid)
93  *      setsid()           :: syscall(39,3)
94  *      getpgid(pid)      :: syscall(39,4,pid)
95  *      setpgid(pid,pgid) :: syscall(39,5,pid,pgid)
96  */
97 #define SYS_ucopystr   40
98 #define SYS_pipe       42
99 #define SYS_times      43
100 #define SYS_profil     44
101 #define SYS_faccessat  45
102 #define SYS_setgid     46
103 #define SYS_getgid     47
104 #define SYS_mknodat   48
105 #define SYS_msgsys    49
106 /*
107  * subcodes:
108  *      msgget(...)      :: msgsys(0, ...)
109  *      msgctl(...)      :: msgsys(1, ...)
110  *      msgrcv(...)      :: msgsys(2, ...)
111  *      msgsnd(...)      :: msgsys(3, ...)
112  *      msgids(...)      :: msgsys(4, ...)
113  *      msgsnap(...)     :: msgsys(5, ...)
114  *      see <sys/msg.h>
115  */
116 #define SYS_sysi86     50
117 /*
118  * subcodes:
119  *      sysi86(code, ...)
120  */
121 #define SYS_acct       51
122 #define SYS_shmsys    52
123 /*
124  * subcodes:
125  *      shmctl(...)      :: shmsys(0, ...)
126  *      shmctl(...)      :: shmsys(1, ...)
127  *      shmdt(...)      :: shmsys(2, ...)
```

## new/usr/src/uts/common/sys/syscall.h

```

128 *      shmget(...) :: shmsys(3, ...)
129 *      shmids(...) :: shmsys(4, ...)
130 *      see <sys/shm.h>
131 */
132 #define SYS_semsys      53
133 /*
134 * subcodes:
135 *      semctl(...) :: semsys(0, ...)
136 *      semget(...) :: semsys(1, ...)
137 *      semop (...) :: semsys(2, ...)
138 *      semids(...) :: semsys(3, ...)
139 *      semtimedop(...) :: semsys(4, ...)
140 *      see <sys/sem.h>
141 */
142 #define SYS_ioctl      54
143 #define SYS_uadmin     55
144 #define SYS_fchownat   56
145 #define SYS_utssys    57
146 /*
147 * subcodes (third argument):
148 *      uname(obuf) (obsolete)  :: syscall(57, obuf, ign, 0)
149 *                               subcode 1 unused
150 *      ustat(dev, obuf)       :: syscall(57, obuf, dev, 2)
151 *      fusers(path, flags, obuf) :: syscall(57, path, flags, 3, obuf)
152 *      see <sys/utssys.h>
153 */
154 #define SYS_fdsync     58
155 #define SYS_execve     59
156 #define SYS_umask      60
157 #define SYS_chroot     61
158 #define SYS_fcntl      62
159 #define SYS_ulimit     63
160 #define SYS_renameat   64
161 #define SYS_unlinkat   65
162 #define SYS_fstatat    66
163 #define SYS_fstatat64  67
164 #define SYS_openat     68
165 #define SYS_openat64   69
166 #define SYS_tasksys    70
167 /*
168 * subcodes:
169 *      settaskid(...) :: tasksys(0, ...)
170 *      gettaskid(...) :: tasksys(1, ...)
171 *      getprojid(...) :: tasksys(2, ...)
172 */
173 #define SYS_acctctl    71
174 #define SYS_exacctsys  72
175 /*
176 * subcodes:
177 *      getacct(...) :: exacct(0, ...)
178 *      putacct(...) :: exacct(1, ...)
179 *      wracct(...) :: exacct(2, ...)
180 */
181 #define SYS_getpagesizes 73
182 /*
183 * subcodes:
184 *      getpagesizes2(...) :: getpagesizes(0, ...)
185 *      getpagesizes(...)  :: getpagesizes(1, ...) legacy
186 */
187 #define SYS_rctlsys    74
188 /*
189 * subcodes:
190 *      getrctl(...) :: rctlsys(0, ...)
191 *      setrctl(...) :: rctlsys(1, ...)
192 *      rctlldlist(...) :: rctlsys(2, ...)
193 *      rctlctl(...) :: rctlsys(3, ...)

```

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## new/usr/src/uts/common/sys/syscall.h

```

194 */
195 #define SYS_sidsys     75
196 /*
197 * subcodes:
198 *      allocids(...)      :: sidsys(0, ...)
199 *      idmap_reg(...)     :: sidsys(1, ...)
200 *      idmap_unreg(...)   :: sidsys(2, ...)
201 */
202 #define SYS_lwp_park   77
203 /*
204 * subcodes:
205 *      _lwp_park(timespec_t *, lwpid_t)      :: syslwp_park(0, ...)
206 *      _lwp_unpark(lwpid_t, int)            :: syslwp_park(1, ...)
207 *      _lwp_unpark_all(lwpid_t *, int)      :: syslwp_park(2, ...)
208 *      _lwp_unpark_cancel(lwpid_t *, int)    :: syslwp_park(3, ...)
209 *      _lwp_set_park(lwpid_t *, int)        :: syslwp_park(4, ...)
210 */
211 #define SYS_sendfilev  78
212 /*
213 * subcodes :
214 *      sendfilev()      :: sendfilev(0, ...)
215 *      sendfilev64()   :: sendfilev(1, ...)
216 */
217 #define SYS_rmdir      79
218 #define SYS_mkdir      80
219 #define SYS_getdents   81
220 #define SYS_privsys    82
221 /*
222 * subcodes:
223 *      setppriv(...)    :: privsys(0, ...)
224 *      getppriv(...)    :: privsys(1, ...)
225 *      getimplinfo(...) :: privsys(2, ...)
226 *      setpflags(...)   :: privsys(3, ...)
227 *      getpflags(...)   :: privsys(4, ...)
228 *      issetugid();     :: privsys(5)
229 */
230 #define SYS_ucredsys   83
231 /*
232 * subcodes:
233 *      ucred_get(...)   :: ucredsys(0, ...)
234 *      getpeerucred(...) :: ucredsys(1, ...)
235 */
236 #define SYS_sysfs      84
237 /*
238 * subcodes:
239 *      sysfs(code, ...)
240 *      see <sys/fstyp.h>
241 */
242 #define SYS_getmsg     85
243 #define SYS_putmsg     86
244 #define SYS_lstat     88
245 #define SYS_symlink   89
246 #define SYS_readlink  90
247 #define SYS_setgroups 91
248 #define SYS_getgroups 92
249 #define SYS_fchmod    93
250 #define SYS_fchown    94
251 #define SYS_sigprocmask 95
252 #define SYS_sigsuspend 96
253 #define SYS_sigaltstack 97
254 #define SYS_sigaction 98
255 #define SYS_sigpending 99
256 /*
257 * subcodes:
258 *                               subcode 0 unused
259 *      sigpending(...) :: syscall(99, 1, ...)

```

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```

260      *      sigfillset(...) :: syscall(99, 2, ...)
261      */
262 #define SYS_context      100
263 /*
264  * subcodes:
265  *      getcontext(...) :: syscall(100, 0, ...)
266  *      setcontext(...) :: syscall(100, 1, ...)
267  */
268 #define SYS_fchmodat    101
269 #define SYS_mkdirat    102
270 #define SYS_statvfs    103
271 #define SYS_fstatvfs   104
272 #define SYS_getloadavg 105
273 #define SYS_nfssys     106
274 #define SYS_waitid     107
275 #define SYS_waitsys    SYS_waitid      /* historical */
276 #define SYS_sigsendsys 108
277 #define SYS_hrtsys     109
278 #define SYS_utimesys   110
279 /*
280  * subcodes:
281  *      futimens(...) :: syscall(110, 0, ...)
282  *      utimensat(...) :: syscall(110, 1, ...)
283  */
284 #define SYS_sigresend   111
285 #define SYS_priocntlsys 112
286 #define SYS_pathconf   113
287 #define SYS_mincore    114
288 #define SYS_mmap        115
289 #define SYS_mprotect   116
290 #define SYS_munmap     117
291 #define SYS_fpathconf  118
292 #define SYS_vfork      119
293 #define SYS_fchdir     120
294 #define SYS_readv      121
295 #define SYS_writev     122
296 #define SYS_mmapobj    127
297 #define SYS_setrlimit  128
298 #define SYS_getrlimit  129
299 #define SYS_lchown     130
300 #define SYS_memcntl    131
301 #define SYS_getpmsg    132
302 #define SYS_putpmsg    133
303 #define SYS_rename     134
304 #define SYS_uname      135
305 #define SYS_setegid    136
306 #define SYS_sysconfig  137
307 #define SYS_adjtime    138
308 #define SYS_systeminfo 139
309 #define SYS_sharefs    140
310 #define SYS_seteuid    141
311 #define SYS_forksys    142
312 /*
313  * subcodes:
314  *      forkx(flags) :: forksys(0, flags)
315  *      forkallx(flags) :: forksys(1, flags)
316  *      vforkx(flags) :: forksys(2, flags)
317  */
318 #define SYS_sigtimedwait 144
319 #define SYS_lwp_info     145
320 #define SYS_yield       146
321 #define SYS_lwp_sema_post 148
322 #define SYS_lwp_sema_trywait 149
323 #define SYS_lwp_detach  150
324 #define SYS_corectl     151
325 #define SYS_modctl      152

```

```

326 #define SYS_fchroot    153
327 #define SYS_vhangup    155
328 #define SYS_gettimeofday 156
329 #define SYS_getitimer  157
330 #define SYS_setitimer  158
331 #define SYS_lwp_create  159
332 #define SYS_lwp_exit    160
333 #define SYS_lwp_suspend 161
334 #define SYS_lwp_continue 162
335 #define SYS_lwp_kill    163
336 #define SYS_lwp_self    164
337 #define SYS_lwp_sigmask 165
338 #define SYS_lwp_private 166
339 #define SYS_lwp_wait    167
340 #define SYS_lwp_mutex_wakeup 168
341 #define SYS_lwp_cond_wait 170
342 #define SYS_lwp_cond_signal 171
343 #define SYS_lwp_cond_broadcast 172
344 #define SYS_pread      173
345 #define SYS_pwrite     174
346 #define SYS_llseek     175
347 #define SYS_inst_sync  176
348 #define SYS_brand      177
349 #define SYS_kaio       178
350 /*
351  * subcodes:
352  *      aioread(...) :: kaio(AIOREAD, ...)
353  *      aiowrite(...) :: kaio(AIOWRITE, ...)
354  *      aiowait(...) :: kaio(AIOWAIT, ...)
355  *      aiocancel(...) :: kaio(AIOCANCEL, ...)
356  *      aionotify() :: kaio(AIONOTIFY)
357  *      aioinit() :: kaio(AIONIT)
358  *      aiostart() :: kaio(AIOSTART)
359  *      see <sys/aio.h>
360  */
361 #define SYS_cpc         179
362 #define SYS_lgrpsys    180
363 #define SYS_meminfosys SYS_lgrpsys
364 /*
365  * subcodes:
366  *      meminfo(...) :: meminfosys(MISYS_MEMINFO, ...)
367  */
368 #define SYS_rusagesys  181
369 /*
370  * subcodes:
371  *      getrusage(...) :: rusagesys(RUSAGESYS_GETRUSAGE, ...)
372  *      getvmusage(...) :: rusagesys(RUSAGESYS_GETVMUSAGE, ...)
373  */
374 #define SYS_port       182
375 /*
376  * subcodes:
377  *      port_create(...) :: portfs(PORT_CREATE, ...)
378  *      port_associate(...) :: portfs(PORT_ASSOCIATE, ...)
379  *      port_dissociate(...) :: portfs(PORT DISSOCIATE, ...)
380  *      port_send(...) :: portfs(PORT_SEND, ...)
381  *      port_sendn(...) :: portfs(PORT_SENDR, ...)
382  *      port_get(...) :: portfs(PORT_GET, ...)
383  *      port_getn(...) :: portfs(PORT_GETN, ...)
384  *      port_alert(...) :: portfs(PORT_ALERT, ...)
385  *      port_dispatch(...) :: portfs(PORT_DISPATCH, ...)
386  */
387 #define SYS_pollsys    183
388 #define SYS_labelsys  184
389 #define SYS_acl        185
390 #define SYS_auditsys   186
391 #define SYS_processor_bind 187

```

```

392 #define SYS_processor_info 188
393 #define SYS_p_online 189
394 #define SYS_sigqueue 190
395 #define SYS_clock_gettime 191
396 #define SYS_clock_settime 192
397 #define SYS_clock_getres 193
398 #define SYS_timer_create 194
399 #define SYS_timer_delete 195
400 #define SYS_timer_settime 196
401 #define SYS_timer_gettime 197
402 #define SYS_timer_getoverrun 198
403 #define SYS_nanosleep 199
404 #define SYS_facld 200
405 #define SYS_door 201
406 /*
407  * Door Subcodes:
408  * 0 door_create
409  * 1 door_revoke
410  * 2 door_info
411  * 3 door_call
412  * 4 door_return
413 */
414 #define SYS_setreuid 202
415 #define SYS_setregid 203
416 #define SYS_install_utrap 204
417 #define SYS_signotify 205
418 #define SYS_schedctl 206
419 #define SYS_pset 207
420 #define SYS_sparc_utrap_install 208
421 #define SYS_resolvepath 209
422 #define SYS_lwp_mutex_timedlock 210
423 #define SYS_lwp_sema_timedwait 211
424 #define SYS_lwp_rwlock_sys 212
425 /*
426  * subcodes:
427  * lwp_rwlock_rdlock(...) :: syscall(212, 0, ...)
428  * lwp_rwlock_wrlock(...) :: syscall(212, 1, ...)
429  * lwp_rwlock_tryrdlock(...) :: syscall(212, 2, ...)
430  * lwp_rwlock_trywrlock(...) :: syscall(212, 3, ...)
431  * lwp_rwlock_unlock(...) :: syscall(212, 4, ...)
432 */
433 /* system calls for large file (> 2 gigabyte) support */
434 #define SYS_getdents64 213
435 #define SYS_mmap64 214
436 #define SYS_stat64 215
437 #define SYS_lstat64 216
438 #define SYS_fstat64 217
439 #define SYS_statvfs64 218
440 #define SYS_fstatvfs64 219
441 #define SYS_setrlimit64 220
442 #define SYS_getrlimit64 221
443 #define SYS_pread64 222
444 #define SYS_pwrite64 223
445 #define SYS_open64 225
446 #define SYS_rpcsys 226
447 #define SYS_zone 227
448 /*
449  * subcodes:
450  * zone_create(...) :: zone(ZONE_CREATE, ...)
451  * zone_destroy(...) :: zone(ZONE_DESTROY, ...)
452  * zone_getattr(...) :: zone(ZONE_GETATTR, ...)
453  * zone_enter(...) :: zone(ZONE_ENTER, ...)
454  * zone_list(...) :: zone(ZONE_LIST, ...)
455  * zone_shutdown(...) :: zone(ZONE_SHUTDOWN, ...)
456  * zone_lookup(...) :: zone(ZONE_LOOKUP, ...)
457  * zone_boot(...) :: zone(ZONE_BOOT, ...)

```

```

458  * zone_version(...) :: zone(ZONE_VERSION, ...)
459  * zone_setattr(...) :: zone(ZONE_SETATTR, ...)
460  * zone_add_datalink(...) :: zone(ZONE_ADD_DATA_LINK, ...)
461  * zone_remove_datalink(...) :: zone(ZONE_DEL_DATA_LINK, ...)
462  * zone_check_datalink(...) :: zone(ZONE_CHECK_DATA_LINK, ...)
463  * zone_list_datalink(...) :: zone(ZONE_LIST_DATA_LINK, ...)
464 */
465 #define SYS_autofs 228
466 #define SYS_getcwd 229
467 #define SYS_so_socket 230
468 #define SYS_so_socketpair 231
469 #define SYS_bind 232
470 #define SYS_listen 233
471 #define SYS_accept 234
472 #define SYS_connect 235
473 #define SYS_shutdown 236
474 #define SYS_recv 237
475 #define SYS_recvfrom 238
476 #define SYS_recvmsg 239
477 #define SYS_send 240
478 #define SYS_sendmsg 241
479 #define SYS_sendto 242
480 #define SYS_getpeername 243
481 #define SYS_getsockname 244
482 #define SYS_getsockopt 245
483 #define SYS_setsockopt 246
484 #define SYS_sockconfig 247
485 /*
486  * NTP codes
487 */
488 #define SYS_ntp_gettime 248
489 #define SYS_ntp_adjtime 249
490 #define SYS_lwp_mutex_unlock 250
491 #define SYS_lwp_mutex_trylock 251
492 #define SYS_lwp_mutex_register 252
493 #define SYS_cladm 253
494 #define SYS_uucopy 254
495 #define SYS_umount2 255

497 #ifndef _ASM

499 typedef struct { /* syscall set type */
500     unsigned int word[16];
501 } sysset_t;
502 unchanged portion omitted

508 #if !defined(_KERNEL)

509 #if defined(__STDC__)
510 extern int syscall(int, ...);
511 extern int __systemcall(sysret_t *, int, ...);
512 extern int __set_errno(int);
513 #else
514 extern int syscall();
515 extern int __systemcall();
516 extern int __set_errno();
517 #endif

514 #endif /* _KERNEL */

516 #endif /* _ASM */

518 #ifdef __cplusplus
519 }
520 unchanged portion omitted

```



```

*****
3835 Sat Aug 2 23:27:27 2014
new/usr/src/uts/common/sys/systeminfo.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23  *
24  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25  * Use is subject to license terms.
26  */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T  */
29 /*      All Rights Reserved  */

32 #ifndef _SYS_SYSTEMINFO_H
33 #define _SYS_SYSTEMINFO_H

35 #ifdef __cplusplus
36 extern "C" {
37 #endif

39 #ifdef _KERNEL
40 extern char architecture[];
41 extern char architecture_32[];
42 extern char hw_serial[]; /* machine's 32-bit hostid; a decimal string */
43 extern char hw_provider[];
44 extern char srpc_domain[];
45 extern char platform[];
46 #endif /* _KERNEL */

48 /*
49  * Commands to sysinfo(2)
50  *
51  * Values for sysinfo(2) commands are to be assigned by the following
52  * algorithm:
53  *
54  * 1 - 256 Unix International assigned numbers for 'get' style commands.
55  * 257 - 512 Unix International assigned numbers for 'set' style commands
56  * where the value is selected to be the value for the
57  * corresponding 'get' command plus 256.
58  * 513 - 768 Solaris specific 'get' style commands.
59  * 769 - 1024 Solaris specific 'set' style commands where the value is
60  * selected to be the value for the corresponding 'get' command
61  * plus 256.

```

```

62 *
63 * These values have be registered
64 * with Unix International can't be corrected now. The status of a command
65 * as published or unpublished does not alter the algorithm.
66 */

68 /* UI defined 'get' commands (1-256) */
69 #define SI_SYSNAME 1 /* return name of operating system */
70 #define SI_HOSTNAME 2 /* return name of node */
71 #define SI_RELEASE 3 /* return release of operating system */
72 #define SI_VERSION 4 /* return version field of utsname */
73 #define SI_MACHINE 5 /* return kind of machine */
74 #define SI_ARCHITECTURE 6 /* return instruction set arch */
75 #define SI_HW_SERIAL 7 /* return hardware serial number */
76 #define SI_HW_PROVIDER 8 /* return hardware manufacturer */
77 #define SI_SRPC_DOMAIN 9 /* return secure RPC domain */

79 /* UI defined 'set' commands (257-512) */
80 #define SI_SET_HOSTNAME 258 /* set name of node */
81 #define SI_SET_SRPC_DOMAIN 265 /* set secure RPC domain */

83 /* Solaris defined 'get' commands (513-768) */
84 #define SI_PLATFORM 513 /* return platform identifier */
85 #define SI_ISALIST 514 /* return supported isa list */
86 #define SI_DHCP_CACHE 515 /* return kernel-cached DHCPACK */
87 #define SI_ARCHITECTURE_32 516 /* basic 32-bit SI_ARCHITECTURE */
88 #define SI_ARCHITECTURE_64 517 /* basic 64-bit SI_ARCHITECTURE */
89 #define SI_ARCHITECTURE_K 518 /* kernel SI_ARCHITECTURE equivalent */
90 #define SI_ARCHITECTURE_NATIVE 519 /* SI_ARCHITECTURE of the caller */

92 /* Solaris defined 'set' commands (769-1024) (none currently assigned) */

95 #define HW_INVALID_HOSTID 0xFFFFFFFF /* an invalid hostid */
96 #define HW_HOSTID_LEN 11 /* minimum buffer size needed */
97 /* to hold a decimal or hex */
98 /* hostid string */
99 #define DOM_NM_LEN 64 /* maximum length of domain */
100 /* name */

102 #if !defined(_KERNEL)
103 #if defined(__STDC__)
104 int sysinfo(int, char *, long);
105 #else
104 int sysinfo();
106 #endif
107 }

_____unchanged_portion_omitted_____

```

new/usr/src/uts/common/sys/t\_kuser.h

1

```
*****
4443 Sat Aug 2 23:27:27 2014
new/usr/src/uts/common/sys/t_kuser.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 *
25 * Copyright 1998 Sun Microsystems, Inc. All rights reserved.
26 * Use is subject to license terms.
27 */
28
29 /*      Copyright (c) 1983, 1984, 1985, 1986, 1987, 1988, 1989 AT&T      */
30 /*      All Rights Reserved      */
31
32 /*
33 * University Copyright- Copyright (c) 1982, 1986, 1988
34 * The Regents of the University of California
35 * All Rights Reserved
36 *
37 * University Acknowledgment- Portions of this document are derived from
38 * software developed by the University of California, Berkeley, and its
39 * contributors.
40 */
41
42 #ifndef _SYS_T_KUSER_H
43 #define _SYS_T_KUSER_H
44
45 #pragma ident      "%Z%M% %I%      %E% SMI"
46
47 #include <sys/types.h>
48 #include <sys/file.h>
49 #include <sys/cred.h>
50 #include <sys/stream.h>
51 #include <sys/tiuser.h>
52
53 #ifdef __cplusplus
54 extern "C" {
55 #endif
56
57 /*
58 * Note this structure will need to be expanded to handle data
59 * related to connection orientated transports.
60 */
61 typedef struct tiuser {
```

new/usr/src/uts/common/sys/t\_kuser.h

2

```
62      struct file *fp;
63      struct t_info tp_info; /* Transport provider Info. */
64      int flags;
65 } TIUSER;
----- unchanged portion omitted -----
66
67 #ifdef KTLIDEBUG
68 extern int      ktli_log();
69 extern int      ktliilog;
70
71 #define          KTLILOG(A, B, C) ((void)((ktliilog) && ktli_log((A), (B), (C))))
72 #else
73 #define          KTLILOG(A, B, C)
74 #endif
75
76 /*
77 * flags
78 */
79 #define          MADE_FP          0x02
80
81 #ifdef __STDC__
82 extern int      t_kalloc(TIUSER *, int, int, char **);
83 extern int      t_kbind(TIUSER *, struct t_bind *, struct t_bind *);
84 extern int      t_kclose(TIUSER *, int);
85 extern int      t_kconnect(TIUSER *, struct t_call *, struct t_call *);
86 extern int      t_kfree(TIUSER *, char *, int);
87 extern int      t_kgetstate(TIUSER *, int *);
88 extern int      t_kopen(struct file *, dev_t, int, TIUSER **, struct cred *);
89 extern int      t_krcvdata(TIUSER *, struct t_kunitdata *, int *, int *);
90 extern int      t_ksndudata(TIUSER *, struct t_kunitdata *, frtn_t *);
91 extern int      t_kspoll(TIUSER *, int, int, int *);
92 extern int      t_kunbind(TIUSER *);
93 extern int      tli_send(TIUSER *, mblk_t *, int);
94 extern int      tli_recv(TIUSER *, mblk_t **, int);
95 extern int      t_tlitosyserr(int);
96 extern int      get_ok_ack(TIUSER *, int, int);
97
98 #else
99 extern int      t_kalloc();
100 extern int      t_kbind();
101 extern int      t_kclose();
102 extern int      t_kconnect();
103 extern int      t_kfree();
104 extern int      t_kgetstate();
105 extern int      t_kopen();
106 extern int      t_krcvdata();
107 extern int      t_ksndudata();
108 extern int      t_kspoll();
109 extern int      t_kunbind();
110 extern int      tli_send();
111 extern int      tli_recv();
112 extern int      t_tlitosyserr();
113 extern int      get_ok_ack();
114 #endif /* __STDC__ */
115
116 /*
117 * these make life a lot easier
118 */
119 #define          TCONNREQSZ      sizeof (struct T_conn_req)
120 #define          TCONNRESZ      sizeof (struct T_conn_res)
121 #define          TDISCONREQSZ   sizeof (struct T_discon_req)
122 #define          TDATAREQSZ     sizeof (struct T_data_req)
```

```
119 #define      TEXDATAREQSZ      sizeof (struct T_exdata_req)
120 #define      TINFOREQSZ        sizeof (struct T_info_req)
121 #define      TBINDREQSZ        sizeof (struct T_bind_req)
122 #define      TUNBINDREQSZ      sizeof (struct T_unbind_req)
123 #define      TUNITDATAREQSZ    sizeof (struct T_unitdata_req)
124 #define      TOPTMGMTREQSZ     sizeof (struct T_optmgmt_req)
125 #define      TORDRELREQSZ      sizeof (struct T_ordrel_req)
126 #define      TCONNINDSZ        sizeof (struct T_conn_ind)
127 #define      TCONNCONSZ        sizeof (struct T_conn_con)
128 #define      TDISCONINDSZ      sizeof (struct T_discon_ind)
129 #define      TDATAINDSZ        sizeof (struct T_data_ind)
130 #define      TEXDATAINDSZ      sizeof (struct T_exdata_ind)
131 #define      TINFOACKSZ        sizeof (struct T_info_ack)
132 #define      TBINDACKSZ        sizeof (struct T_bind_ack)
133 #define      TERRORACKSZ       sizeof (struct T_error_ack)
134 #define      TOKACKSZ          sizeof (struct T_ok_ack)
135 #define      TUNITDATAINDSZ    sizeof (struct T_unitdata_ind)
136 #define      TUDERRORINDSZ     sizeof (struct T_uderror_ind)
137 #define      TOPTMGMTACKSZ     sizeof (struct T_optmgmt_ack)
138 #define      TORDRELINDSZ      sizeof (struct T_ordrel_ind)
139 #define      TPRIMITIVES       sizeof (struct T_primitives)

141 #ifdef __cplusplus
142 }
unchanged_portion_omitted
```

new/usr/src/uts/common/sys/termios.h

1

```
*****
15995 Sat Aug 2 23:27:27 2014
new/usr/src/uts/common/sys/termios.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
22 /*      All Rights Reserved      */

25 /*
26 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27 *
28 * Copyright (c) 1988, 2010, Oracle and/or its affiliates. All rights reserved.
29 */

31 #ifndef _SYS_TERMIOS_H
32 #define _SYS_TERMIOS_H

34 #include <sys/feature_tests.h>

36 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
37 #include <sys/ttydev.h>
38 #include <sys/time.h>
39 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

41 #include <sys/types.h>

43 #ifdef __cplusplus
44 extern "C" {
45 #endif

47 /*
48 * _POSIX_VDISABLE has been defined in <sys/termios.h> since the
49 * introduction of the header. The POSIX standard, IEEE Std.
50 * 1003.1-1988 also required the existence of _POSIX_VDISABLE in
51 * this header. Subsequent versions of the IEEE Standard as well
52 * as the X/Open specifications required that _POSIX_VDISABLE be
53 * defined in <unistd.h> while still allowing for it's existence
54 * here. With the introduction of XPG6, _POSIX_VDISABLE can only
55 * be defined in <unistd.h>.
56 */
57 #if !defined(_XPG6) || defined(__EXTENSIONS__)
58 #ifndef _POSIX_VDISABLE
59 #define _POSIX_VDISABLE 0 /* Disable special character functions */
60 #endif
61 #endif /* !defined(_XPG6) || defined(__EXTENSIONS__) */
```

new/usr/src/uts/common/sys/termios.h

2

```
63 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
64 #define CTRL(c) ((c)&037)
65 #define IBSHIFT 16
66 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

68 /* required by termio.h and VCEOF/VCEOL */
69 #define _NCC 8
70 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
71 #define _NCC _NCC
72 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

74 /* some defines required by POSIX */
75 #define NCCS 19

77 /*
78 * types defined by POSIX. These are better off in types.h, but
79 * the standard says that they have to be in termios.h.
80 */
81 typedef unsigned int tcfld_t;
82 typedef unsigned char cc_t;
83 typedef unsigned int speed_t;

85 /*
86 * Ioctl control packet
87 */
88 struct termios {
89     tcfld_t          c_iflag;          /* input modes */
90     tcfld_t          c_oflag;          /* output modes */
91     tcfld_t          c_cflag;          /* control modes */
92     tcfld_t          c_lflag;          /* line discipline modes */
93     cc_t             c_cc[NCCS];      /* control chars */
94 };

96 /*
97 * POSIX termios functions
98 * These functions get mapped into ioctls.
99 */

101 #ifndef _KERNEL

101 #if defined(__STDC__)

103 extern speed_t cfgetospeed(const struct termios *);
104 extern int cfsetospeed(struct termios *, speed_t);
105 extern speed_t cfgetispeed(const struct termios *);
106 extern int cfsetispeed(struct termios *, speed_t);
107 extern int tcgetattr(int, struct termios *);
108 extern int tcsetattr(int, int, const struct termios *);
109 extern int tcsendbreak(int, int);
110 extern int tcdrain(int);
111 extern int tcflush(int, int);
112 extern int tcflow(int, int);

114 #else

116 extern speed_t cfgetospeed();
117 extern int cfsetospeed();
118 extern speed_t cfgetispeed();
119 extern int cfsetispeed();
120 extern int tcgetattr();
121 extern int tcsetattr();
122 extern int tcsendbreak();
123 extern int tcdrain();
124 extern int tcflush();
125 extern int tcflow();
```

```

127 #endif /* __STDC__ */

114 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)

131 #if defined(__STDC__)
116 extern pid_t tcgetsid(int);
133 #else
134 extern pid_t tcgetsid();
135 #endif /* __STDC__ */

118 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) ... */

120 #endif

122 /* control characters */
123 #define VINTR 0
124 #define VQUIT 1
125 #define VERASE 2
126 #define VKILL 3
127 #define VEOF 4
128 #define VEOL 5
129 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
130 #define VEOL2 6
131 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
132 #define VMIN 4
133 #define VTIME 5
134 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
135 #define VSWTCH 7
136 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
137 #define VSTART 8
138 #define VSTOP 9
139 #define VSUSP 10
140 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
141 #define VDSUSP 11
142 #define VREPRINT 12
143 #define VDISCARD 13
144 #define VWERASE 14
145 #define VLNEXT 15
146 #define VSTATUS 16
147 /* 17 through 19 reserved for future use */

149 /*
150 * control characters form Xenix termio.h
151 */
152 #define VCEOF NCC /* RESERVED true EOF char (V7 compatability) */
153 #define VCEOL (NCC + 1) /* RESERVED true EOL char */

155 #define CNUL 0
156 #define CDEL 0177

158 /* S5 default control chars */
159 /* CINTR, CERASE and CKILL modified to SunOS traditional values */
160 #define CESC '\\\
161 #define CINTR CTRL('c')
162 #define CQUIT 034 /* FS, cntl | */
163 #define CERASE 0177 /* DEL */
164 #define CKILL CTRL('u')
165 #define CEOT 04
166 #define CEOL 0
167 #define CEOL2 0
168 #define CEOF 04 /* cntl d */
169 #define CSTART 021 /* cntl q */
170 #define CSTOP 023 /* cntl s */
171 #define CSWTCH 032 /* cntl z */
172 #define CNSWTCH 0

```

```

173 #define CSUSP CTRL('z')
174 #define CDSUSP CTRL('y')
175 #define CRPRNT CTRL('r')
176 #define CFLUSH CTRL('o')
177 #define CWERASE CTRL('w')
178 #define CLNEXT CTRL('v')
179 #define CSTATUS CTRL('t')
180 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

183 /* input modes */
184 #define IGNBRK 0000001
185 #define BRKINT 0000002
186 #define IGNPAR 0000004
187 #define PARMRK 0000010
188 #define INPCK 0000020
189 #define ISTRIP 0000040
190 #define INLCR 0000100
191 #define IGNCR 0000200
192 #define ICRNL 0000400
193 #if !defined(_POSIX_C_SOURCE) || \
194     (defined(__XOPEN_SOURCE) && !defined(__XPG6)) || \
195     defined(__EXTENSIONS__)
196 #define IUCLC 0001000
197 #endif /* !defined(_POSIX_C_SOURCE) || defined(__XOPEN_SOURCE)... */
198 #define IXON 0002000
199 #if !defined(_POSIX_C_SOURCE) || defined(__XOPEN_SOURCE) || \
200     defined(__EXTENSIONS__)
201 #define IXANY 0004000
202 #endif /* !defined(_POSIX_C_SOURCE) || defined(__XOPEN_SOURCE)... */
203 #define IXOFF 0010000
204 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
205 #define IMAXBEL 0020000
206 #define DOSMODE 0100000 /* for 386 compatibility */
207 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

209 /* output modes */
210 #define OPOST 0000001
211 #if !defined(_POSIX_C_SOURCE) || defined(__XOPEN_SOURCE) || \
212     defined(__EXTENSIONS__)
213 #if !defined(__XPG6) || defined(__EXTENSIONS__)
214 #define OLCUC 0000002
215 #endif
216 #define ONLCR 0000004
217 #define OCRNL 0000010
218 #define ONOCR 0000020
219 #define ONLRET 0000040
220 #define OFILL 0000100
221 #define OFDEL 0000200
222 #define NLDLY 0000400
223 #define NL0 0
224 #define NL1 0000400
225 #define CRDLY 0003000
226 #define CR0 0
227 #define CR1 0001000
228 #define CR2 0002000
229 #define CR3 0003000
230 #define TABDLY 0014000
231 #define TAB0 0
232 #define TAB1 0004000
233 #define TAB2 0010000
234 #define TAB3 0014000
235 #endif /* !defined(_POSIX_C_SOURCE) || defined(__XOPEN_SOURCE)... */
236 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
237 #define XTABS 0014000
238 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

```

```

239 #if !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE) || \
240     defined(__EXTENSIONS__)
241 #define BSDLY 0020000
242 #define BSO 0
243 #define BSL 0020000
244 #define VTDLY 0040000
245 #define VT0 0
246 #define VT1 0040000
247 #define FFDLY 0100000
248 #define FF0 0
249 #define FFL 0100000
250 #endif /* !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE)... */
251 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
252 #define PAGEOUT 0200000
253 #define WRAP 0400000

255 /* control modes */
256 #define CBAUD 0000017
257 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
258 #define CSIZE 0000060
259 #define CS5 0
260 #define CS6 0000020
261 #define CS7 0000040
262 #define CS8 0000060
263 #define CSTOPB 0000100
264 #define CREAD 0000200
265 #define PARENB 0000400
266 #define PARODD 0001000
267 #define HUPCL 0002000
268 #define CLOCAL 0004000
269 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
270 #define RCVLEN 0010000
271 #define XMTLEN 0020000
272 #define LOBLK 0040000
273 #define XCLUDE 0100000 /* *V7* exclusive use coming from XENIX */
274 #define CRTSXOFF 010000000000
275 #define CRTSCTS 020000000000
276 #define CIBAUD 03600000
277 #define PAREXT 04000000
278 #define CBAUDEXT 010000000
279 #define CIBAUDEXT 020000000

281 /*
282 * 4.4BSD hardware flow control flags
283 */
284 #define CRTS_IFLOW 010000000000
285 #define CCTS_OFLOW 020000000000

287 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

289 /* line discipline 0 modes */
290 #define ISIG 0000001
291 #define ICANON 0000002
292 #if !defined(_POSIX_C_SOURCE) || \
293     (defined(_XOPEN_SOURCE) && !defined(_XPG6)) || \
294     defined(__EXTENSIONS__)
295 #define XCASE 0000004
296 #endif /* !defined(_POSIX_C_SOURCE) || defined(_XOPEN_SOURCE)... */
297 #define ECHO 0000010
298 #define ECHOE 0000020
299 #define ECHOK 0000040
300 #define ECHONL 0000100
301 #define NOFLSH 0000200
302 #define TOSTOP 0000400
303 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
304 #define ECHOCTL 0001000

```

```

305 #define ECHOPRT 0002000
306 #define ECHOKE 0004000
307 #define DEFECHO 0010000
308 #define FLUSHO 0020000
309 #define PENDIN 0040000
310 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

312 #define IEXTEN 0100000 /* POSIX flag - enable POSIX extensions */
313 #define _TIOC ('T'<<8)

315 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

317 #define TIOC _TIOC

319 #define TCGETA (_TIOC|1)
320 #define TCSETA (_TIOC|2)
321 #define TCSETAW (_TIOC|3)
322 #define TCSETAF (_TIOC|4)
323 #define TCSBRK (_TIOC|5)
324 #define TCXONC (_TIOC|6)
325 #define TCFLSH (_TIOC|7)

327 /* Slots reserved for 386/XENIX compatibility - keyboard control */

329 #define TIOCKBON (_TIOC|8)
330 #define TIOCKBOF (_TIOC|9)
331 #define KBENABLED (_TIOC|10)

333 #ifndef IOCTYPE
334 #define IOCTYPE 0xff00
335 #endif

337 #define TCDSET (_TIOC|32)
338 #define RTS_TOG (_TIOC|33) /* 386 - "RTS" toggle define 8A1 protocol */

340 #define TIOCGWINSZ (_TIOC|104)
341 #define TIOCSWINSZ (_TIOC|103)

343 /*
344 * Softcarrier ioctls
345 */
346 #define TIOCGSOFTCAR (_TIOC|105)
347 #define TIOCSSOFTCAR (_TIOC|106)

350 /* termios ioctls */

352 #define TCGETS (_TIOC|13)
353 #define TCSETS (_TIOC|14)
354 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
355 #define TCSANOW (_TIOC|14) /* same as TCSETS */
356 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
357 #define TCSETSW (_TIOC|15)
358 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
359 #define TCSADRAIN (_TIOC|15) /* same as TCSETSW */
360 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
361 #define TCSETSF (_TIOC|16)

363 /*
364 * NTP PPS ioctls
365 */
366 #define TIOCGPPS (_TIOC|125)
367 #define TIOCSPPS (_TIOC|126)
368 #define TIOCGPPSEV (_TIOC|127)

370 /* Argument filled in by TIOCGPPSEV */

```

new/usr/src/uts/common/sys/termios.h

7

```
371 struct ppsclockev {  
372     struct timeval tv;  
373     uint_t serial;  
374 };  
_____unchanged_portion_omitted_____
```

```

*****
13998 Sat Aug 2 23:27:27 2014
new/usr/src/uts/common/sys/time.h
remove support for non-ANSI compilation
*****
1 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
2 /*      All Rights Reserved */

5 /*
6 * Copyright (c) 1982, 1986, 1993 Regents of the University of California.
7 * All rights reserved. The Berkeley software License Agreement
8 * specifies the terms and conditions for redistribution.
9 */

11 /*
12 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
13 *
14 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
15 * Use is subject to license terms.
16 */

18 #ifndef _SYS_TIME_H
19 #define _SYS_TIME_H

21 #include <sys/feature_tests.h>

23 /*
24 * Structure returned by gettimeofday(2) system call,
25 * and used in other calls.
26 */

28 #ifdef __cplusplus
29 extern "C" {
30 #endif

32 #if !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || \
33     defined(__EXTENSIONS__)
34 #ifndef _ASM

36 #if !defined(_TIME_T) || __cplusplus >= 199711L
37 #define _TIME_T
38 typedef long time_t; /* time of day in seconds */
39 #endif /* _TIME_T */

41 #ifndef _SUSECONDS_T
42 #define _SUSECONDS_T
43 typedef long suseconds_t; /* signed # of microseconds */
44 #endif /* _SUSECONDS_T */

46 struct timeval {
47     time_t tv_sec; /* seconds */
48     suseconds_t tv_usec; /* and microseconds */
49 };
    unchanged_portion_omitted

331 extern int64_t timedelta;
332 extern int timechanged;
333 extern int tod_needsync;
334 extern kmutex_t tod_lock;
335 extern volatile timestruc_t hrestime;
336 extern hrtime_t hres_last_tick;
337 extern int64_t hrestime_adj;
338 extern uint_t adj_shift;

340 extern timestruc_t tod_get(void);

```

```

341 extern void tod_set(timestruc_t);
342 extern void set_hrestime(timestruc_t *);
343 extern todinfo_t utc_to_tod(time_t);
344 extern time_t tod_to_utc(todinfo_t);
345 extern int hr_clock_lock(void);
346 extern void hr_clock_unlock(int);
347 extern hrtime_t gethrtime(void);
348 extern hrtime_t gethrtime_unscaled(void);
349 extern hrtime_t gethrtime_max(void);
350 extern hrtime_t gethrtime_waitfree(void);
351 extern void scalehrtime(hrtime_t *);
352 extern uint64_t unscalehrtime(hrtime_t);
353 extern void gethrestime(timespec_t *);
354 extern time_t gethrestime_sec(void);
355 extern void gethrestime_lasttick(timespec_t *);
356 extern void hrt2ts(hrtime_t, timestruc_t *);
357 extern hrtime_t ts2hrt(const timestruc_t *);
358 extern void hrt2tv(hrtime_t, struct timeval *);
359 extern hrtime_t tv2hrt(struct timeval *);
360 extern int itimerfix(struct timeval *, int);
361 extern int itimerdecr(struct itimerval *, int);
362 extern void timevaladd(struct timeval *, struct timeval *);
363 extern void timevalsub(struct timeval *, struct timeval *);
364 extern void timevalfix(struct timeval *);
365 extern void dtrace_hres_tick(void);

367 extern clock_t ddi_get_lbolt(void);
368 extern int64_t ddi_get_lbolt64(void);

370 #if defined(_SYSCALL32)
371 extern void hrt2ts32(hrtime_t, timestruc32_t *);
372 #endif

374 #endif /* _KERNEL */

376 #if !defined(_KERNEL) && !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
375 #if defined(__STDC__)
377 int adjtime(struct timeval *, struct timeval *);
377 #else
378 int adjtime();
379 #endif
378 #endif /* !defined(_KERNEL) && !defined(__XOPEN_OR_POSIX) ... */

380 #if !defined(_KERNEL) && !defined(__XOPEN_OR_POSIX) || \
381     defined(_ATFILE_SOURCE) || defined(__EXTENSIONS__)
384 #if defined(__STDC__)
382 int futimesat(int, const char *, const struct timeval *);
386 #else
387 int futimesat();
388 #endif /* defined(__STDC__) */
383 #endif /* defined(_ATFILE_SOURCE) */

385 #if !defined(_KERNEL) && !defined(__XOPEN_OR_POSIX) || defined(_XPG4_2) || \
386     defined(__EXTENSIONS__)

394 #if defined(__STDC__)

388 int getitimer(int, struct itimerval *);
389 int utimes(const char *, const struct timeval *);
390 #if defined(_XPG4_2)
391 int setitimer(int, const struct itimerval *_RESTRICT_KYWD,
392             struct itimerval *_RESTRICT_KYWD);
393 #else
394 int setitimer(int, struct itimerval *_RESTRICT_KYWD,
395             struct itimerval *_RESTRICT_KYWD);
396 #endif /* defined(_XPG2_2) */

```



```

406 #else /* __STDC__ */
408 int gettimer();
409 int settimer();
410 int utimes();
411 #endif /* __STDC__ */
398 #endif /* !defined(__KERNEL) ... defined(__XPG4_2) */

400 /*
401 * gettimeofday() and settimeofday() were included in SVr4 due to their
402 * common use in BSD based applications. They were to be included exactly
403 * as in BSD, with two parameters. However, AT&T/USL noted that the second
404 * parameter was unused and deleted it, thereby making a routine included
405 * for compatibility, incompatible.
406 *
407 * XSH4.2 (spec 1170) defines gettimeofday and settimeofday to have two
408 * parameters.
409 *
410 * This has caused general disagreement in the application community as to
411 * the syntax of these routines. Solaris defaults to the XSH4.2 definition.
412 * The flag _SVID_GETTOD may be used to force the SVID version.
413 */
414 #if !defined(__KERNEL) && !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)

430 #if defined(__STDC__)
416 #if defined(_SVID_GETTOD)
417 int settimeofday(struct timeval *);
418 #else
419 int settimeofday(struct timeval *, void *);
420 #endif
421 hrtime_t      gethrtime(void);
422 hrtime_t      gethrvtime(void);
438 #else /* __STDC__ */
439 int gettimeofday();
440 hrtime_t      gethrtime();
441 hrtime_t      gethrvtime();
442 #endif /* __STDC__ */

424 #endif /* !(defined __KERNEL) && !defined(__XOPEN_OR_POSIX) ... */

426 #if !defined(__KERNEL) && !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || \
427     defined(__EXTENSIONS__)

449 #if defined(__STDC__)
429 #if defined(_SVID_GETTOD)
430 int gettimeofday(struct timeval *);
431 #else
432 int gettimeofday(struct timeval *_RESTRICT_KYWD, void *_RESTRICT_KYWD);
433 #endif
455 #else /* __STDC__ */
456 int gettimeofday();
457 #endif /* __STDC__ */

435 #endif /* !defined(__KERNEL) && !defined(__XOPEN_OR_POSIX) ... */

437 /*
438 * The inclusion of <time.h> is historical and was added for
439 * backward compatibility in delta 1.2 when a number of definitions
440 * were moved out of <sys/time.h>. More recently, the timespec and
441 * itimerspec structure definitions, along with the _CLOCK_*, CLOCK_*,
442 * _TIMER_*, and TIMER_* symbols were moved to <sys/time_impl.h>,
443 * which is now included by <time.h>. This change was due to POSIX
444 * 1003.1b-1993 and X/Open UNIX 98 requirements. For non-POSIX and
445 * non-X/Open applications, including this header will still make
446 * visible these definitions.

```

```

447 */
448 #if !defined(__BOOT) && !defined(__KERNEL) && \
449     !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
450 #include <time.h>
451 #endif

453 /*
454 * The inclusion of <sys/select.h> is needed for the FD_CLR,
455 * FD_ISSET, FD_SET, and FD_SETSIZE macros as well as the
456 * select() prototype defined in the XOpen specifications
457 * beginning with XSH4v2. Placement required after definition
458 * for itimerval.
459 */
460 #if !defined(__KERNEL) && !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || \
461     defined(__EXTENSIONS__)
462 #include <sys/select.h>
463 #endif

465 #endif /* _ASM */

467 #ifdef __cplusplus
468 }

```

unchanged portion omitted

new/usr/src/uts/common/sys/timeb.h

1

```
*****
2751 Sat Aug 2 23:27:27 2014
new/usr/src/uts/common/sys/timeb.h
remove support for non-ANSI compilation
*****
1 /*
2  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
3  *
4  * Copyright 2005 Sun Microsystems, Inc. All rights reserved.
5  * Use is subject to license terms.
6  */

8 #ifndef _SYS_TIMEB_H
9 #define _SYS_TIMEB_H

9 #pragma ident "%Z%M% %I% %E% SMI"

11 #ifdef __cplusplus
12 extern "C" {
13 #endif

15 #include <sys/types.h>

17 /*
18  * Copyright (c) 1991, 1993
19  * The Regents of the University of California. All rights reserved.
20  * (c) UNIX System Laboratories, Inc.
21  * All or some portions of this file are derived from material licensed
22  * to the University of California by American Telephone and Telegraph
23  * Co. or Unix System Laboratories, Inc. and are reproduced herein with
24  * the permission of UNIX System Laboratories, Inc.
25  *
26  * Redistribution and use in source and binary forms, with or without
27  * modification, are permitted provided that the following conditions
28  * are met:
29  * 1. Redistributions of source code must retain the above copyright
30  * notice, this list of conditions and the following disclaimer.
31  * 2. Redistributions in binary form must reproduce the above copyright
32  * notice, this list of conditions and the following disclaimer in the
33  * documentation and/or other materials provided with the distribution.
34  * 3. All advertising materials mentioning features or use of this software
35  * must display the following acknowledgement:
36  * This product includes software developed by the University of
37  * California, Berkeley and its contributors.
38  * 4. Neither the name of the University nor the names of its contributors
39  * may be used to endorse or promote products derived from this software
40  * without specific prior written permission.
41  *
42  * THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS'' AND
43  * ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
44  * IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
45  * ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE
46  * FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
47  * DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
48  * OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
49  * HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
50  * LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
51  * OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
52  * SUCH DAMAGE.
53  */

55 /* The ftime(2) system call structure */
56 struct timeb {
57     time_t time; /* seconds since the Epoch */
58     unsigned short millitm; /* + milliseconds since the Epoch */
59     short timezone; /* minutes west of CUT */

```

new/usr/src/uts/common/sys/timeb.h

2

```
60     short dstflag; /* DST == non-zero */
61 };

63 #if defined(__STDC__)
64 extern int ftime(struct timeb *);
65 #else
66 extern int ftime();
67 #endif

65 #ifdef __cplusplus
66 }

```

unchanged\_portion\_omitted

new/usr/src/uts/common/sys/times.h

1

\*\*\*\*\*

1712 Sat Aug 2 23:27:27 2014

new/usr/src/uts/common/sys/times.h

remove support for non-ANSI compilation

\*\*\*\*\*

```
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */
```

```
29 #ifndef _SYS_TIMES_H
30 #define _SYS_TIMES_H
```

```
29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 11.7 */
```

```
32 #include <sys/types.h>
```

```
34 #ifdef __cplusplus
35 extern "C" {
36 #endif
```

```
38 /*
39  * Structure returned by times()
40  */
41 struct tms {
42     clock_t tms_utime;      /* user time */
43     clock_t tms_stime;      /* system time */
44     clock_t tms_cutime;      /* user time, children */
45     clock_t tms_cstime;      /* system time, children */
46 };
```

unchanged portion omitted

```
60 #endif /* _SYSCALL32 */
```

```
61 #if defined(__STDC__)
62 clock_t times(struct tms *);
63 #else
64 clock_t times();
65 #endif
```

```
64 #ifdef __cplusplus
65 }
```

unchanged portion omitted

```

*****
10588 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/timex.h
remove support for non-ANSI compilation
*****
1 /*
2  * Copyright (c) David L. Mills 1993, 1994
3  *
4  * Permission to use, copy, modify, and distribute this software and its
5  * documentation for any purpose and without fee is hereby granted, provided
6  * that the above copyright notice appears in all copies and that both the
7  * copyright notice and this permission notice appear in supporting
8  * documentation, and that the name University of Delaware not be used in
9  * advertising or publicity pertaining to distribution of the software
10 * without specific, written prior permission. The University of Delaware
11 * makes no representations about the suitability this software for any
12 * purpose. It is provided "as is" without express or implied warranty.
13 */

15 /*
16  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
17  *
18  * Copyright 1996-1997, 2002 Sun Microsystems, Inc. All rights reserved.
19  * Use is subject to license terms.
20  */

22 #ifndef _SYS_TIMEX_H
23 #define _SYS_TIMEX_H

23 #pragma ident "%Z%M% %I% %E% SMI"

25 #ifdef __cplusplus
26 extern "C" {
27 #endif

29 #include <sys/types.h>
30 #include <sys/time.h>
31 #include <sys/syscall.h>
32 #include <sys/inttypes.h>

34 /*
35  * The following defines establish the engineering parameters of the
36  * phase-lock loop (PLL) model used in the kernel implementation. These
37  * parameters have been carefully chosen by analysis for good stability
38  * and wide dynamic range.
39  *
40  * The hz variable is defined in the kernel build environment. It
41  * establishes the timer interrupt frequency.
42  *
43  * SCALE_KG and SCALE_KF establish the damping of the PLL and are chosen
44  * for a slightly underdamped convergence characteristic. SCALE_KH
45  * establishes the damping of the FLL and is chosen by wisdom and black
46  * art.
47  *
48  * MAXTC establishes the maximum time constant of the PLL. With the
49  * SCALE_KG and SCALE_KF values given and a time constant range from
50  * zero to MAXTC, the PLL will converge in 15 minutes to 16 hours,
51  * respectively.
52  */
53 #define SCALE_KG      (1<<6) /* phase factor (multiplier) */
54 #define SCALE_KF      (1<<16) /* PLL frequency factor (multiplier) */
55 #define SCALE_KH      (1<<2) /* FLL frequency factor (multiplier) */
56 #define MAXTC         (1<<6) /* maximum time constant */

59 /*

```

```

60  * The following defines establish the scaling of the various variables
61  * used by the PLL. They are chosen to allow the greatest precision
62  * possible without overflow of a 32-bit word.
63  *
64  * SCALE_PHASE defines the scaling (multiplier) of the time_phase variable,
65  * which serves as an extension to the low-order bits of the system
66  * clock variable time.tv_usec.
67  *
68  * SCALE_UPDATE defines the scaling (multiplier) of the time_offset variable,
69  * which represents the current time offset with respect to standard
70  * time.
71  *
72  * SCALE_USEC defines the scaling (multiplier) of the time_freq and
73  * time_tolerance variables, which represent the current frequency
74  * offset and maximum frequency tolerance.
75  *
76  * FINEUSEC is 1 us in SCALE_UPDATE units of the time_phase variable.
77  */
78 #define SCALE_PHASE    (1<<22) /* phase scale */
79 #define SCALE_USEC     (1<<16)
80 #define SCALE_UPDATE   (SCALE_KG * MAXTC) /* */
81 #define FINEUSEC       (1<<22) /* 1 us in phase units */

83 /*
84  * The following defines establish the performance envelope of the PLL.
85  * They insure it operates within predefined limits, in order to satisfy
86  * correctness assertions. An excursion which exceeds these bounds is
87  * clamped to the bound and operation proceeds accordingly. In practice,
88  * this can occur only if something has failed or is operating out of
89  * tolerance, but otherwise the PLL continues to operate in a stable
90  * mode.
91  *
92  * MAXPHASE must be set greater than or equal to CLOCK.MAX (128 ms), as
93  * defined in the NTP specification. CLOCK.MAX establishes the maximum
94  * time offset allowed before the system time is reset, rather than
95  * incrementally adjusted. Here, the maximum offset is clamped to
96  * MAXPHASE only in order to prevent overflow errors due to defective
97  * protocol implementations.
98  *
99  * MAXFREQ is the maximum frequency tolerance of the CPU clock
100 * oscillator plus the maximum slew rate allowed by the protocol. It
101 * should be set to at least the frequency tolerance of the oscillator
102 * plus 100 ppm for vernier frequency adjustments. The oscillator time and
103 * frequency are disciplined to an external source, presumably with
104 * negligible time and frequency error relative to UTC, and MAXFREQ can
105 * be reduced.
106 *
107 * MAXTIME is the maximum jitter tolerance of the PPS signal.
108 *
109 * MINSEC and MAXSEC define the lower and upper bounds on the interval
110 * between protocol updates.
111 */
112 #define MAXPHASE 512000 /* max phase error (us) */
113 #define MAXFREQ (512 * SCALE_USEC) /* max freq error (100 ppm) */
114 #define MAXTIME (200 << PPS_AVG) /* max PPS error (jitter) (200 us) */
115 #define MINSEC 16 /* min interval between updates (s) */
116 #define MAXSEC 1200 /* max interval between updates (s) */

118 /*
119  * The following defines are used only if a pulse-per-second (PPS)
120  * signal is available and connected via a modem control lead, such as
121  * produced by the optional ppsclock feature incorporated in the Sun
122  * asynch driver. They establish the design parameters of the frequency-
123  * lock loop used to discipline the CPU clock oscillator to the PPS
124  * signal.
125  */

```

```

126 * PPS_AVG is the averaging factor for the frequency loop, as well as
127 * the time and frequency dispersion.
128 *
129 * PPS_SHIFT and PPS_SHIFTMAX specify the minimum and maximum
130 * calibration intervals, respectively, in seconds as a power of two.
131 *
132 * PPS_VALID is the maximum interval before the PPS signal is considered
133 * invalid and protocol updates used directly instead.
134 *
135 * MAXGLITCH is the maximum interval before a time offset of more than
136 * MAXTIME is believed.
137 */
138 #define PPS_AVG 2          /* pps averaging constant (shift) */
139 #define PPS_SHIFT 2       /* min interval duration (s) (shift) */
140 #define PPS_SHIFTMAX 8   /* max interval duration (s) (shift) */
141 #define PPS_VALID 120    /* pps signal watchdog max (s) */
142 #define MAXGLITCH 30     /* pps signal glitch max (s) */

144 /*
145 * The following defines and structures define the user interface for
146 * the ntp_gettime() and ntp_adjtime() system calls.
147 *
148 * Control mode codes (timex.modes)
149 */
150 #define MOD_OFFSET 0x0001 /* set time offset */
151 #define MOD_FREQUENCY 0x0002 /* set frequency offset */
152 #define MOD_MAXERROR 0x0004 /* set maximum time error */
153 #define MOD_ESTERROR 0x0008 /* set estimated time error */
154 #define MOD_STATUS 0x0010 /* set clock status bits */
155 #define MOD_TIMECONST 0x0020 /* set pll time constant */
156 #define MOD_CLKB 0x4000 /* set clock B */
157 #define MOD_CLKA 0x8000 /* set clock A */

159 /*
160 * Status codes (timex.status)
161 */
162 #define STA_PLL 0x0001 /* enable PLL updates (rw) */
163 #define STA_PPSFREQ 0x0002 /* enable PPS freq discipline (rw) */
164 #define STA_PPSTIME 0x0004 /* enable PPS time discipline (rw) */
165 #define STA_FLL 0x0008 /* select frequency-lock mode (rw) */

167 #define STA_INS 0x0010 /* insert leap (rw) */
168 #define STA_DEL 0x0020 /* delete leap (rw) */
169 #define STA_UNSYNC 0x0040 /* clock unsynchronized (rw) */
170 #define STA_FREQHOLD 0x0080 /* hold frequency (rw) */

172 #define STA_PPSSIGNAL 0x0100 /* PPS signal present (ro) */
173 #define STA_PPSJITTER 0x0200 /* PPS signal jitter exceeded (ro) */
174 #define STA_PPSWANDER 0x0400 /* PPS signal wander exceeded (ro) */
175 #define STA_PPSERROR 0x0800 /* PPS signal calibration error (ro) */

177 #define STA_CLOCKERR 0x1000 /* clock hardware fault (ro) */

179 #define STA_ROONLY (STA_PPSSIGNAL | STA_PPSJITTER | STA_PPSWANDER | \
180 STA_PPSERROR | STA_CLOCKERR) /* read-only bits */

182 /*
183 * Clock states (time_state)
184 */
185 #define TIME_OK 0 /* no leap second warning */
186 #define TIME_INS 1 /* insert leap second warning */
187 #define TIME_DEL 2 /* delete leap second warning */
188 #define TIME_OOP 3 /* leap second in progress */
189 #define TIME_WAIT 4 /* leap second has occurred */
190 #define TIME_ERROR 5 /* clock not synchronized */

```

```

192 /*
193 * NTP user interface (ntp_gettime()) - used to read kernel clock values
194 *
195 * Note: maximum error = NTP synch distance = dispersion + delay / 2;
196 * estimated error = NTP dispersion.
197 */
198 struct ntptimeval {
199     struct timeval; /* current time (ro) */
200     int32_t maxerror; /* maximum error (us) (ro) */
201     int32_t esterror; /* estimated error (us) (ro) */
202 };
203
204 #if defined(__STDC__)
205 #if defined(_KERNEL)
206 #if defined(_CPLUSPLUS)
207 #endif
208 #endif
209 #endif
210
211 #ifndef _KERNEL
212 #endif
213
214 #if defined(_CPLUSPLUS)
215 #endif
216
217 #endif
218
219 #endif /* __STDC__ */
220
221 #if defined(_CPLUSPLUS)
222 #endif
223
224 #endif
225
226 #if defined(_CPLUSPLUS)
227 #endif
228
229 #endif
230
231 #endif
232
233 #endif
234
235 #endif
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266
267 #endif
268
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*****
6479 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/tiuser.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23 * Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T
24 * All Rights Reserved
25 *
26 */

28 /*
29 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
30 *
31 * Copyright 2002 Sun Microsystems, Inc. All rights reserved.
32 * Use is subject to license terms.
33 * Copyright 2014 Gary Mills
34 */

36 #ifndef _SYS_TIUSER_H
37 #define _SYS_TIUSER_H

39 #include <sys/types.h>
40 /*
41 * The following include file has declarations needed by both the kernel
42 * level transport providers and the user level library.
43 */
44 #include <sys/tpicommon.h>

46 #ifdef __cplusplus
47 extern "C" {
48 #endif

51 /*
52 * The following are the events returned by t_look
53 */
54 #define T_LISTEN      0x0001 /* connection indication received */
55 #define T_CONNECT    0x0002 /* connect confirmation received */
56 #define T_DATA       0x0004 /* normal data received */
57 #define T_EXDATA     0x0008 /* expedited data received */
58 #define T_DISCONNECT 0x0010 /* disconnect received */
59 #define T_UDERR      0x0040 /* data gram error indication */
60 #define T_ORDREL     0x0080 /* orderly release indication */
61 #define T_EVENTS     0x00ff /* event mask */

```

```

63 /*
64 * Flags for data primitives.
65 */
66 #define T_MORE      0x001 /* more data */
67 #define T_EXPEDITED 0x002 /* expedited data */

70 /*
71 * protocol specific service limits
72 */

74 struct t_info {
75     t_scalar_t addr; /* size of protocol address */
76     t_scalar_t options; /* size of protocol options */
77     t_scalar_t tsdu; /* size of max transport service data unit */
78     t_scalar_t etsdu; /* size of max expedited tsdu */
79     t_scalar_t connect; /* max data for connection primitives */
80     t_scalar_t discon; /* max data for disconnect primitives */
81     t_scalar_t servtype; /* provider service type */
82 };

unchanged portion omitted

156 /*
157 * The following are structure types used when dynamically
158 * allocating the above structures via t_structalloc().
159 */
160 #define T_BIND      1 /* struct t_bind */
161 #define T_OPTMGMT   2 /* struct t_optmgmt */
162 #define T_CALL      3 /* struct t_call */
163 #define T_DIS       4 /* struct t_discon */
164 #define T_UNITDATA  5 /* struct t_unitdata */
165 #define T_UDERR     6 /* struct t_uderr */
166 #define T_INFO      7 /* struct t_info */

168 /*
169 * The following bits specify which fields of the above
170 * structures should be allocated by t_structalloc().
171 */
172 #define T_ADDR      0x01 /* address */
173 #define T_OPT       0x02 /* options */
174 #define T_UDATA     0x04 /* user data */
175 #define T_ALL       0x07 /* all the above */

177 /*
178 * the following are the states for the user
179 */

181 #define T_UNINIT    0 /* uninitialized */
182 #define T_UNBND     1 /* unbound */
183 #define T_IDLE      2 /* idle */
184 #define T_OUTCON    3 /* outgoing connection pending */
185 #define T_INCON     4 /* incoming connection pending */
186 #define T_DATAXFER  5 /* data transfer */
187 #define T_OUTREL    6 /* outgoing release pending */
188 #define T_INREL     7 /* incoming release pending */
189 #define T_BADSTATE  8 /* illegal state */

191 /*
192 * Flags for t_getname.
193 */
194 #define LOCALNAME   0
195 #define REMOTENAME  1

195 #if defined(__STDC__)

```

```
197 extern int t_accept(int fildes, int resfd, struct t_call *call);
198 extern char *t_alloc(int fildes, int struct_type, int fields);
199 extern int t_bind(int fildes, struct t_bind *req, struct t_bind *ret);
200 extern int t_close(int fildes);
201 extern int t_connect(int fildes, struct t_call *sndcall,
202                     struct t_call *rcvcall);
203 extern void t_error(const char *errmsg);
204 extern int t_free(char *ptr, int struct_type);
205 extern int t_getinfo(int fildes, struct t_info *info);
206 extern int t_getname(int fildes, struct netbuf *name, int type);
207 extern int t_getstate(int fildes);
208 extern int t_listen(int fildes, struct t_call *call);
209 extern int t_look(int fildes);
210 extern int t_open(const char *path, int oflag, struct t_info *info);
211 extern int t_optmgmt(int fildes, struct t_optmgmt *req,
212                     struct t_optmgmt *ret);
213 extern int t_rcv(int fildes, char *buf, unsigned nbytes, int *flags);
214 extern int t_rcvconnect(int fildes, struct t_call *call);
215 extern int t_rcvdis(int fildes, struct t_discon *discon);
216 extern int t_rcvrel(int fildes);
217 extern int t_rcvudata(int fildes, struct t_unitdata *unitdata, int *flags);
218 extern int t_rcvuderr(int fildes, struct t_uderr *uderr);
219 extern int t_snd(int fildes, char *buf, unsigned nbytes, int flags);
220 extern int t_snddis(int fildes, struct t_call *call);
221 extern int t_sndrel(int fildes);
222 extern int t_sndudata(int fildes, struct t_unitdata *unitdata);
223 extern char *t_strerror(int errnum);
224 extern int t_sync(int fildes);
225 extern int t_unbind(int fildes);

227 /*
228  *      N.B.:  this interface is deprecated.  Use t_strerror() instead.
229  */
230 extern char *t_errlist[];
231 extern int t_nerr;

233 #endif /* __STDC__ */

233 #ifdef __cplusplus
234 }
   unchanged_portion_omitted
```

new/usr/src/uts/common/sys/uadmin.h

1

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*****
5182 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/uadmin.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved */

32 #ifndef _SYS_UADMIN_H
33 #define _SYS_UADMIN_H

36 #if !defined(_ASM)
37 #include <sys/types.h>
38 #include <sys/cred.h>
39 #endif

41 #ifdef __cplusplus
42 extern "C" {
43 #endif

45 #define A_REBOOT          1
46 #define A_SHUTDOWN       2
47 #define A_FREEZE         3      /* For freeze and thaw */
48 #define A_REMOUNT        4
49 #define A_DUMP           5
50 #define A_FTRACE         15
51 #define A_SWAPCTL        16
52 /*      17-21      reserved for obsolete interface */
53 #define A_SDTTEST        22     /* DTrace sdt:::test */
54 #define A_CONFIG         23     /* For system configuration */

56 #define AD_UNKNOWN       -1     /* no method */
57 #define AD_HALT          0      /* halt the processor */
58 #define AD_BOOT          1      /* multi-user reboot */
59 #define AD_IBOOT         2      /* multi-user reboot, ask for name of file */
60 #define AD_SBOOT         3      /* single-user reboot */
61 #define AD_SIBOOT        4      /* single-user reboot, ask for name of file */
```

new/usr/src/uts/common/sys/uadmin.h

2

```
62 #define AD_POWEROFF     6      /* software poweroff */
63 #define AD_NOSYNC       7      /* do not sync filesystems on next A_DUMP */
64 #define AD_FASTREBOOT   8      /* bypass firmware and boot loader */
65 #define AD_FASTREBOOT_DRYRUN 9      /* Fast reboot Dry run */

67 /*
68 * Functions reserved for A_FREEZE (may not be available on all platforms)
69 * Note: AD_COMPRESS, AD_CHECK and AD_FORCE are now obsolete
70 * The first two are succeeded by AD_SUSPEND_TO_DISK and
71 * AD_CHECK_SUSPEND_TO_DISK respectively.
72 * AD_FORCE should not be used by any new application
73 *
74 * We maintain compatibility with the earlier interfaces:
75 * AD_COMPRESS and AD_CHECK, by preserving those values
76 * in the corresponding new interfaces
77 */

79 #define AD_COMPRESS     0      /* store state file compressed during CPR */
80 #define AD_FORCE        1      /* force to do AD_COMPRESS */
81 #define AD_CHECK        2      /* test if CPR module is available */
82 #define AD_SUSPEND_TO_DISK AD_COMPRESS /* A_FREEZE, CPR or ACPI S4 */
83 #define AD_CHECK_SUSPEND_TO_DISK AD_CHECK /* A_FREEZE, CPR/S4 capable? */
84 #define AD_SUSPEND_TO_RAM 20     /* A_FREEZE, S3 */
85 #define AD_CHECK_SUSPEND_TO_RAM 21 /* A_FREEZE, S3 capable? */

87 /*
88 * NOTE: the following defines comprise an Unstable interface. Their semantics
89 * may change or they may be removed completely in a later release
90 */
91 #define AD_REUSEINIT    3      /* prepare for AD_REUSABLE */
92 #define AD_REUSABLE     4      /* create reusable statefile */
93 #define AD_REUSEFINI    5      /* revert to normal CPR mode (not reusable) */

95 #define AD_FTRACE_START 1
96 #define AD_FTRACE_STOP 2

98 /*
99 * Functions of A_CONFIG. Unstable interface.
100 */
101 #define AD_UPDATE_BOOT_CONFIG 1 /* Update boot config variables */

103 /*
104 * When 'mdep' (the second argument to uadmin(2)) is initialized for A_REBOOT,
105 * A_SHUTDOWN or A_DUMP, it represents the boot arguments string of at most
106 * 256 characters.
107 */
108 #define BOOTARGS_MAX    256

110 #if !defined(_KERNEL)
111 /*
112 * FMRI for boot-config service.
113 */
114 #define FMRI_BOOT_CONFIG \
115     "svc:/system/boot-config:default"

117 /*
118 * Property group that contains all Fast Reboot configuration properties.
119 */
120 #define BOOT_CONFIG_PG_PARAMS    "config"

122 /*
123 * Property group that contains all Fast Reboot blacklisting information.
124 */
125 #define BOOT_CONFIG_PG_FBBLACKLIST    "fastreboot_blacklist"

127 */
```



```
128 * Non-persistent property group which contains all the properties that
129 * will override settings in the BOOT_CONFIG_PG_PARAMS property group.
130 */
131 #define BOOT_CONFIG_PG_OVR                "config_ovr"

133 #endif /* _KERNEL */

135 /*
136 * Flag representations of fastboot configuration.
137 */
138 #define UA_FASTREBOOT_DEFAULT    0x01
139 #define UA_FASTREBOOT_ONPANIC    0x02

141 #define FASTREBOOT_DEFAULT        "fastreboot_default"
142 #define FASTREBOOT_ONPANIC        "fastreboot_onpanic"
143 #define FASTREBOOT_ONPANIC_CMDLINE "fastreboot_onpanic_cmdline"

145 #define FASTREBOOT_ONPANIC_NOTSET(p) \
146     (strcmp((p), "false") == 0 || \
147      strcmp((p), "no") == 0 || \
148      strcmp((p), "0") == 0)

150 #define FASTREBOOT_ONPANIC_ISSET(p) \
151     (strcmp((p), "true") == 0 || \
152      strcmp((p), "yes") == 0 || \
153      strcmp((p), "1") == 0)

155 #if !defined(_ASM)

157 #if defined(_KERNEL)
158 extern kmutex_t ualock;
159 extern void mdboot(int, int, char *, boolean_t);
160 extern void mdpreboot(int, int, char *);
161 extern int kadmin(int, int, void *, cred_t *);
162 extern void killall(zoneid_t);
163 #endif

163 #if defined(__STDC__)
165 extern int uadmin(int, int, uintptr_t);
165 #else
166 extern int uadmin();
167 #endif

167 #endif /* _ASM */

169 #ifdef __cplusplus
170 }
    unchanged_portion_omitted

```

new/usr/src/uts/common/sys/uio.h

1

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*****
7572 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/uio.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License (the "License").
6  * You may not use this file except in compliance with the License.
7  *
8  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9  * or http://www.opensolaris.org/os/licensing.
10 * See the License for the specific language governing permissions
11 * and limitations under the License.
12 *
13 * When distributing Covered Code, include this CDDL HEADER in each
14 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */
21 /*
22 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
23 *
24 * Copyright 2010 Sun Microsystems, Inc. All rights reserved.
25 * Use is subject to license terms.
26 */

28 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
29 /*      All Rights Reserved      */

31 /*
32 * University Copyright- Copyright (c) 1982, 1986, 1988
33 * The Regents of the University of California
34 * All Rights Reserved
35 *
36 * University Acknowledgment- Portions of this document are derived from
37 * software developed by the University of California, Berkeley, and its
38 * contributors.
39 */

41 #ifndef _SYS_UIO_H
42 #define _SYS_UIO_H

44 #include <sys/feature_tests.h>

46 #ifdef __cplusplus
47 extern "C" {
48 #endif

50 #include <sys/types.h>

52 /*
53 * I/O parameter information.  A uio structure describes the I/O which
54 * is to be performed by an operation.  Typically the data movement will
55 * be performed by a routine such as uiomove(), which updates the uio
56 * structure to reflect what was done.
57 */

59 #if defined(_XPG4_2)
60 typedef struct iovec {
61     void      *iov_base;
```

new/usr/src/uts/common/sys/uio.h

2

```
62     size_t iov_len;
63 } iovec_t;
_____unchanged_portion_omitted_____

235 #endif /* !defined(_XPG4_2) || defined(__EXTENSIONS__) */

237 #if defined(_KERNEL)

239 int     uiomove(void *, size_t, enum uio_rw, uio_t *);
240 void    uio_prefaultpages(ssize_t, uio_t *);
241 int     uiocopy(void *, size_t, enum uio_rw, uio_t *, size_t *);
242 int     ureadc(int, uio_t *); /* should be errno_t in future */
243 int     uwritec(struct uio *);
244 void    uioskip(uio_t *, size_t);
245 int     uiodup(uio_t *, uio_t *, iovec_t *, int);

247 int     uioamove(void *, size_t, enum uio_rw, uioa_t *);
248 int     uioainit(uio_t *, uioa_t *);
249 int     uioafini(uio_t *, uioa_t *);
250 extern  uioasynch_t uioasynch;

252 #else /* defined(_KERNEL) */

252 #if defined(__STDC__)

254 extern ssize_t readv(int, const struct iovec *, int);
255 extern ssize_t writev(int, const struct iovec *, int);

257 #else /* defined(__STDC__) */

259 extern ssize_t readv();
260 extern ssize_t writev();

262 #endif /* defined(__STDC__) */

257 #endif /* defined(_KERNEL) */

259 #ifdef __cplusplus
260 }
_____unchanged_portion_omitted_____
```

new/usr/src/uts/common/sys/utsname.h

1

```
*****
3021 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/utsname.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
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12 * and limitations under the License.
13 *
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
23 /*      All Rights Reserved      */

26 /*
27  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28  *
29  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30  * Use is subject to license terms.
31  */

33 #ifndef _SYS_UTSNAME_H
34 #define _SYS_UTSNAME_H

36 #include <sys/feature_tests.h>

38 #ifdef __cplusplus
39 extern "C" {
40 #endif

42 #define _SYS_NMLN      257      /* 4.0 size of utsname elements */
43                          /* Must be at least 257 to      */
44                          /* support Internet hostnames. */

46 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
47 #ifndef SYS_NMLN
48 #define SYS_NMLN      _SYS_NMLN
49 #endif
50 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

52 struct utsname {
53     char    sysname[_SYS_NMLN];
54     char    nodename[_SYS_NMLN];
55     char    release[_SYS_NMLN];
56     char    version[_SYS_NMLN];
57     char    machine[_SYS_NMLN];
58 };

60 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
61 extern struct utsname utsname;
```

new/usr/src/uts/common/sys/utsname.h

2

```
62 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
64 #if !defined(_KERNEL)

66 #if defined(__i386) && !defined(__amd64)

66 #if defined(__STDC__)

68 extern int uname(struct utsname *);
69 extern int _uname(struct utsname *);

71 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
72 extern int nuname(struct utsname *);
73 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
74 extern int _nuname(struct utsname *);

76 #else /* defined(__STDC__) */

78 extern int uname();
79 extern int _uname();

81 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
82 extern int nuname();
83 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
84 extern int _nuname();

86 #endif /* defined(__STDC__) */

76 /*
77  * On i386 in SVID.2 uname() returns a utsname structure with 8 byte members,
78  * and nuname() returns the real struct utsname. In SVID.3 uname and nuname
79  * are equivalent. Anyone who includes this header gets the SVID.3 behaviour.
80  * The SVID.2 behaviour exists solely for compatibility, and is what is
81  * implemented by the libc uname/_uname entrypoints.
82  */
83 #ifdef __PRAGMA_REDEFINE_EXTNAME
84 #pragma redefine_extname      uname      _nuname
85 #pragma redefine_extname      _uname      _nuname
86 #else
87 #define uname      _nuname
88 #define _uname      _nuname
89 #endif

91 #else /* defined(__i386) */

105 #if defined(__STDC__)
93 extern int uname(struct utsname *);
107 #else
108 extern int uname();
109 #endif /* (__STDC__) */

95 #endif /* defined(__i386) */

97 #else /* !(_KERNEL) */
98 /*
99  * Routine to retrieve the nodename as seen in the current process's zone.
100  */
101 extern char *uts_nodename(void);
102 #endif /* !(_KERNEL) */

104 #ifdef __cplusplus
105 }

_____unchanged_portion_omitted_
```

new/usr/src/uts/common/sys/va\_impl.h

1

```
*****
5886 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/va_impl.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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6  * (the "License"). You may not use this file except in compliance
7  * with the License.
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
23 /*      All Rights Reserved      */

26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30 * Use is subject to license terms.
31 */

33 #ifndef _SYS_VA_IMPL_H
34 #define _SYS_VA_IMPL_H

36 /*
37 * An application should not include this header directly. Instead it
38 * should be included only through the inclusion of other Sun headers,
39 * specifically <stdarg.h> and <varargs.h>.
40 *
41 * This header serves two purposes.
42 *
43 * First, it provides a common set of definitions that implementations
44 * of the various standards for variable argument lists may use. These
45 * various standards are implemented in <varargs.h>, <stdarg.h>,
46 * <iso/stdarg_iso.h>, <iso/stdarg_c99.h>, and <sys/varargs.h>.
47 *
48 * Second, it provides varying implementations of the common definitions,
49 * depending upon the compiler.
50 */

52 /*
53 * The common definitions exported by this header or compilers using
54 * this header are:
55 *
56 * the macro __va_start(list, name) starting the list iteration
57 * the macro __va_arg(list, type) getting the current arg and iterating
58 * the macro __va_copy(to, from) to bookmark the list iteration
59 * the macro __va_end(list) to end the iteration
60 *
61 * In addition, the following are exported via inclusion of <sys/va_list.h>:
```

new/usr/src/uts/common/sys/va\_impl.h

2

```
62 *
63 * the identifier __builtin_va_alist for the variable list pseudo parameter
64 * the type __va_alist_type for the variable list pseudo parameter
65 * the type __va_list defining the type of the variable list iterator
66 */

68 /*
69 * This header uses feature macros (e.g. __BUILTIN_VA_ARG_INCR and
70 * __BUILTIN_VA_STRUCT), compiler macros (e.g. __GNUC__), and processor
71 * macros (e.g. __sparc) to determine the protocol appropriate to the
72 * current compilation. It is intended that the compilation system
73 * define the feature, processor, and compiler macros, not the user of
74 * the system.
75 */

77 /*
78 * Many compilation systems depend upon the use of special functions
79 * built into the the compilation system to handle variable argument
80 * lists. These built-in symbols may include one or more of the
81 * following:
82 *
83 *     __builtin_va_alist
84 *     __builtin_va_start
85 *     __builtin_va_arg_incr
86 *     __builtin_stdarg_start
87 *     __builtin_va_end
88 *     __builtin_va_arg
89 *     __builtin_va_copy
90 */

92 /*
93 * The following are defined in <sys/va_list.h>:
94 *
95 *     __va_alist_type
96 *     __va_void()
97 *     __va_ptr_base
98 *     ISA definitions via inclusion of <sys/isa_defs.h>
99 *
100 * Inclusion of this header also makes visible the symbols in <sys/va_list.h>.
101 * This header is included in <varargs.h>, <sys/varargs.h> and in <stdarg.h>
102 * via inclusion of <iso/stdarg_iso.h>.
103 */

105 #include <sys/va_list.h>

107 #ifdef __cplusplus
108 extern "C" {
109 #endif

111 #if defined(__lint) /* ----- protocol */

113 #define __va_start(list, name) ((list) = (__va_list)&name)
114 #define __va_arg(list, type) ((type *) (list))[0]
115 #define __va_copy(to, from) __va_void(((to) = (from)))
116 /*ARGSUSED*/
117 static void __va_end(__va_list list) { __va_end(list); }

119 #elif defined(__BUILTIN_VA_STRUCT) /* ----- protocol */

121 /* ISA __va_list structures defined in <sys/va_list.h> */

121 #if defined(__STDC__) /* source language is ISO C or C++ */

123 void __builtin_va_start(__va_list, ...);
124 void *__builtin_va_arg_incr(__va_list, ...);
```

```

126 #else /* source language is K&R C */
128 int __builtin_va_start();
129 char *__builtin_va_arg_incr();
131 #endif /* source language */
126 #define __va_start(list, name) __builtin_va_start(list, 0)
127 #define __va_arg(list, type) \
128 ((type *)__builtin_va_arg_incr(list, (type *)0))[0]
129 #define __va_copy(to, from) __va_void(((to)[0] = (from)[0]))
130 #define __va_end(list) __va_void(0)
132 #elif defined(__BUILTIN_VA_ARG_INCR) /* ----- protocol */
134 #define __va_start(list, name) \
135 __va_void(((list) = (__va_list)&__builtin_va_alist))
136 #define __va_arg(list, type) \
137 ((type *)__builtin_va_arg_incr((type *)list))[0]
138 #define __va_copy(to, from) __va_void(((to) = (from)))
139 #define __va_end(list) __va_void(0)
141 #elif defined(__GNUC__) && ((__GNUC__ == 2 && __GNUC_MINOR__ >= 96) || \
142 (__GNUC__ >= 3)) /* ----- protocol */
143 #if (__GNUC__ < 3) || ((__GNUC__ == 3) && (__GNUC_MINOR__ < 3))
144 #define __va_start(list, name) __builtin_stdarg_start(list, name)
145 #else
146 #define __va_start(list, name) __builtin_va_start(list, name)
147 #endif
149 #define __va_arg(list, type) __builtin_va_arg(list, type)
150 #define __va_end(list) __builtin_va_end(list)
151 #define __va_copy(to, from) __builtin_va_copy(to, from)
153 #else /* ----- protocol */
155 /*
156 * Because we can not predict the compiler protocol for unknown compilers, we
157 * force an error in order to avoid unpredictable behavior. For versions of
158 * gcc 2.95 and earlier, variable argument lists are handled in gcc specific
159 * stdarg.h and varargs.h headers created via the gcc fixincl utility. In
160 * those cases, the gcc headers would override this header.
161 */
163 #error("Unrecognized compiler protocol for variable argument lists")
165 #endif /* ----- protocol */
167 #ifdef __cplusplus
168 }
_____unchanged_portion_omitted_

```

new/usr/src/uts/common/sys/va\_list.h

1

```
*****
4030 Sat Aug  2 23:27:28 2014
new/usr/src/uts/common/sys/va_list.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
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23 /*      All Rights Reserved      */

26 /*
27 * Copyright 2014 Garrett D'Amore <garrett@damore.org>
28 *
29 * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
30 * Use is subject to license terms.
31 */

33 #ifndef _SYS_VA_LIST_H
34 #define _SYS_VA_LIST_H

36 /*
37 * An application should not include this header directly. Instead it
38 * should be included only through the inclusion of other Sun headers.
39 *
40 * The purpose of this header is to provide the type definitions for
41 * the va_list argument used by a number of printf and printf like
42 * functions. The headers that define these various function prototypes
43 * #include this header directly. These include but are not necessarily
44 * limited to <stdio.h>, <stdio_iso.h>, <wchar_iso.h>, <strlog.h> and
45 * <syslog.h>. The type definitions included in this header are for
46 * the benefit of consumers of va_list.
47 *
48 * Any application that accepts variable argument lists must as documented,
49 * include either <varargs.h> or the preferred <stdarg.h>. Doing so will
50 * pull in the appropriate compiler protocols defined in <sys/va_impl.h>
51 * which is in turn is included by <varargs.h> and <stdarg.h>. See comments
52 * in <sys/va_impl.h> for more detailed information regarding implementation
53 * and compiler specific protocols.
54 */

56 /*
57 * The common definitions exported by this header or compilers using
58 * this header are:
59 *
60 * the identifier __builtin_va_alist for the variable list pseudo parameter
61 * the type __va_alist_type for the variable list pseudo parameter
```

new/usr/src/uts/common/sys/va\_list.h

2

```
62 * the type __va_list defining the type of the variable list iterator
63 *
64 * The feature macros (e.g. __BUILTIN_VA_STRUCT) and compiler macros
65 * (__GNUC__) and processor macros (e.g. __amd64) are intended to be
66 * defined by the compilation system, not the user of the system.
67 */

69 #include <sys/isa_defs.h>      /* sys/isa_defs needed for _LP64. */

71 #ifdef __cplusplus
72 extern "C" {
73 #endif

75 #if defined(_LP64)
76 #define __va_alist_type long
77 #else
78 #define __va_alist_type int
79 #endif

79 #if defined(__STDC__) /* source language is ISO C or C++ */

81 #define __va_void(expr) ((void)expr)
82 #define __va_ptr_base   void

84 #else /* source language is K&R C */

86 #define __va_void(expr) expr
87 #define __va_ptr_base   char

89 #endif /* __STDC__ */

84 #if defined(__BUILTIN_VA_STRUCT) && !defined(__lint) /* ----- protocol */

86 #if defined(__amd64) /* processor */

88 typedef struct __va_list_element {
89     unsigned int __va_gp_offset;
90     unsigned int __va_fp_offset;
91     void * __va_overflow_arg_area;
92     void * __va_reg_sve_area;
93 } __va_list[1];
unchanged portion omitted
```

new/usr/src/uts/common/sys/varargs.h

1

```
*****
2127 Sat Aug 2 23:27:28 2014
new/usr/src/uts/common/sys/varargs.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
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6  * (the "License"). You may not use this file except in compliance
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8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
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12 * and limitations under the License.
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
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17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
23 /*      All Rights Reserved      */

25 /*
26  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27  *
28  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
29  * Use is subject to license terms.
30  */

32 #ifndef _SYS_VARARGS_H
33 #define _SYS_VARARGS_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* UCB 4.1 83/05/03 */

35 /*
36  * This header defines the Solaris system definitions for variable
37  * argument lists. For the most part, it follows the definitions of
38  * ISO C 1999. It does not follow the namespace rules for ISO C++
39  * 1998.
40  * 1998. For legacy support, it also defines the pre-standard variable
41  * argument definitions.
42  *
43  * The varargs definitions within this header are defined in terms of
44  * implementation definitions. These implementation definitions reside
45  * in <sys/va_impl.h>. This organization enables protected use of
46  * the implementation by other standard headers without introducing
47  * names into the users' namespace.
48  */

48 #include <sys/va_impl.h>

50 #ifdef __cplusplus
51 extern "C" {
52 #endif

54 #ifndef _VA_LIST
55 #define _VA_LIST
56 typedef __va_list va_list;
```

new/usr/src/uts/common/sys/varargs.h

2

```
57 #endif

61 #if defined(__STDC__)
59 /*
60  * This file provides stdarg semantics despite the name of the file.
63  * When __STDC__ is defined, this file provides stdarg semantics despite
64  * the name of the file.
61  */

63 #define va_start(list, name)      __va_start(list, name)
64 #define va_arg(list, type)        __va_arg(list, type)
65 #define va_copy(to, from)         __va_copy(to, from)
66 #define va_end(list)              __va_end(list)

72 #else /* ! __STDC__ */
73 /*
74  * In the absence of __STDC__, this file provides traditional varargs
75  * semantics.
76  */

78 #define va_alist                  __builtin_va_alist
79 #define va_dcl                    __va_alist_type va_alist;
80 #define va_start(list)            __va_start(list, va_alist)
81 #define va_arg(list, type)        __va_arg(list, type)
82 #define va_copy(to, from)         __va_copy(to, from)
83 #define va_end(list)              __va_end(list)

85 #endif /* __STDC__ */

69 #ifdef __cplusplus
70 }
_____unchanged_portion_omitted_____
```

```

*****
2338 Sat Aug 2 23:27:29 2014
new/usr/src/uts/common/sys/vfstab.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
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6  * (the "License"). You may not use this file except in compliance
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12 * and limitations under the License.
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15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24 */
25 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
26 /*      All Rights Reserved      */

29 #ifndef _SYS_VFSTAB_H
30 #define _SYS_VFSTAB_H

29 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.2 */

32 #ifdef __cplusplus
33 extern "C" {
34 #endif

36 #define VFSTAB      "/etc/vfstab"
37 #define VFS_LINE_MAX      1024

39 #define VFS_TOOLONG      1      /* entry exceeds VFS_LINE_MAX */
40 #define VFS_TOOMANY      2      /* too many fields in line */
41 #define VFS_TOOFEW      3      /* too few fields in line */

43 #define vfnnull(vp)      ((vp)->vfs_special = (vp)->vfs_fsckdev = \
44                          (vp)->vfs_mountp = (vp)->vfs_fstype = \
45                          (vp)->vfs_fsckpass = (vp)->vfs_automnt = \
46                          (vp)->vfs_mntopts = NULL)

48 #define putvfsent(fd, vp)\
49     fprintf((fd), "%s\t%s\t%s\t%s\t%s\t%s\t%s\n", \
50             (vp)->vfs_special ? (vp)->vfs_special : "-", \
51             (vp)->vfs_fsckdev ? (vp)->vfs_fsckdev : "-", \
52             (vp)->vfs_mountp ? (vp)->vfs_mountp : "-", \
53             (vp)->vfs_fstype ? (vp)->vfs_fstype : "-", \
54             (vp)->vfs_fsckpass ? (vp)->vfs_fsckpass : "-", \
55             (vp)->vfs_automnt ? (vp)->vfs_automnt : "-", \
56             (vp)->vfs_mntopts ? (vp)->vfs_mntopts : "-")

58 struct vfstab {
59     char      *vfs_special;

```

```

60     char      *vfs_fsckdev;
61     char      *vfs_mountp;
62     char      *vfs_fstype;
63     char      *vfs_fsckpass;
64     char      *vfs_automnt;
65     char      *vfs_mntopts;
66 };

67 #ifdef __STDC__
68 extern int      getvfsent(FILE *, struct vfstab *);
69 extern int      getvfsspec(FILE *, struct vfstab *, char *);
70 extern int      getvfsfile(FILE *, struct vfstab *, char *);
71 extern int      getvfsany(FILE *, struct vfstab *, struct vfstab *);
72 #else
73 extern int      getvfsent();
74 extern int      getvfsspec();
75 extern int      getvfsfile();
76 extern int      getvfsany();
77 #endif

73 #ifdef __cplusplus
74 }
    unchanged_portion_omitted

```



```

*****
11832 Sat Aug 2 23:27:29 2014
new/usr/src/uts/common/sys/vtoc.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
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15 * If applicable, add the following below this CDDL HEADER, with the
16 * fields enclosed by brackets "[]" replaced with your own identifying
17 * information: Portions Copyright [yyyy] [name of copyright owner]
18 *
19 * CDDL HEADER END
20 */

22 /*
23  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
24  *
25  * Copyright 2009 Sun Microsystems, Inc. All rights reserved.
26  * Use is subject to license terms.
27 */

30 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
31 /*      All Rights Reserved      */

34 #ifndef _SYS_VTOC_H
35 #define _SYS_VTOC_H

37 #include <sys/dklabel.h>

39 #ifdef __cplusplus
40 extern "C" {
41 #endif

43 /*
44  * Note: the VTOC is not implemented fully, nor in the manner
45  * that AT&T implements it. AT&T puts the vtoc structure
46  * into a sector, usually the second sector (pdsector is first).
47  *
48  * Sun incorporates the tag, flag, version, and volume vtoc fields into
49  * its Disk Label, which already has some vtoc-equivalent fields.
50  * Upon reading the vtoc with read_vtoc(), the following exceptions
51  * occur:
52  *      v_bootinfo [all]      returned as zero
53  *      v_sanitary           returned as VTOC_SANE
54  *                          if Disk Label was sane
55  *      v_sectorsz          returned as 512
56  *      v_reserved [all]     returned as zero
57  *      timestamp [all]     returned as zero
58  *
59  * See dklabel.h, read_vtoc(), and write_vtoc().
60 */

```

```

62 #define V_NUMPAR          NDKMAP          /* The number of partitions */
63                               /* (from dkio.h) */

65 #define VTOC_SANE        0x600DDEEE     /* Indicates a sane VTOC */
66 #define V_VERSION        0x01           /* layout version number */
67 #define V_EXTVERSION     V_VERSION      /* extvtoc layout version number */

69 /*
70  * Partition identification tags
71  */
72 #define V_UNASSIGNED     0x00           /* unassigned partition */
73 #define V_BOOT           0x01           /* Boot partition */
74 #define V_ROOT           0x02           /* Root filesystem */
75 #define V_SWAP           0x03           /* Swap filesystem */
76 #define V_USR            0x04           /* Usr filesystem */
77 #define V_BACKUP         0x05           /* full disk */
78 #define V_STAND          0x06           /* Stand partition */
79 #define V_VAR            0x07           /* Var partition */
80 #define V_HOME           0x08           /* Home partition */
81 #define V_ALTSECTOR     0x09           /* Alternate sector partition */
82 #define V_CACHE          0x0a           /* Cache (cachefs) partition */
83 #define V_RESERVED      0x0b           /* SMI reserved data */

85 /*
86  * Partition permission flags
87  */
88 #define V_UNMNT          0x01           /* Unmountable partition */
89 #define V_RDONLY        0x10           /* Read only */

91 /*
92  * error codes for reading & writing vtoc
93  */
94 #define VT_ERROR         (-2)           /* errno supplies specific error */
95 #define VT_EIO           (-3)           /* I/O error accessing vtoc */
96 #define VT_EINVAL        (-4)           /* illegal value in vtoc or request */
97 #define VT_ENOTSUP       (-5)           /* VTOC op. not supported */
98 #define VT_ENOSPC        (-6)           /* requested space not found */
99 #define VT_EOVERFLOW     (-7)           /* VTOC op. data struct limited */

101 struct partition        {
102     ushort_t p_tag;      /* ID tag of partition */
103     ushort_t p_flag;    /* permission flags */
104     daddr_t p_start;    /* start sector no of partition */
105     long p_size;        /* # of blocks in partition */
106 };
    unchanged portion omitted

215 #define vtoc32tovtoc(v32, v)          \
216 {                                       \
217     int i;                               \
218     v.v_bootinfo[0] = v32.v_bootinfo[0]; \
219     v.v_bootinfo[1] = v32.v_bootinfo[1]; \
220     v.v_bootinfo[2] = v32.v_bootinfo[2]; \
221     v.v_sanitary = v32.v_sanitary;       \
222     v.v_version = v32.v_version;         \
223     bcopy(v32.v_volume, v.v_volume, LEN_DKL_VVOL); \
224     v.v_sectorsz = v32.v_sectorsz;      \
225     v.v_nparts = v32.v_nparts;          \
226     v.v_version = v32.v_version;        \
227     for (i = 0; i < 10; i++)           \
228         v.v_reserved[i] = v32.v_reserved[i]; \
229     for (i = 0; i < V_NUMPAR; i++) {    \
230         v.v_part[i].p_tag = (ushort_t)v32.v_part[i].p_tag; \
231         v.v_part[i].p_flag = (ushort_t)v32.v_part[i].p_flag; \
232         v.v_part[i].p_start = (unsigned)v32.v_part[i].p_start; \
233         v.v_part[i].p_size = (unsigned)v32.v_part[i].p_size; \

```

```

234     }
235     for (i = 0; i < V_NUMPAR; i++)
236         v.timestamp[i] = (time_t)v32.timestamp[i];
237     bcopy(v32.v_asciilabel, v.v_asciilabel, LEN_DKL_ASCII);
238 }

240 #define vtoc32toextvtoc(v32, extv)
241 {
242     int i;
243     extv.v_bootinfo[0] = v32.v_bootinfo[0];
244     extv.v_bootinfo[1] = v32.v_bootinfo[1];
245     extv.v_bootinfo[2] = v32.v_bootinfo[2];
246     extv.v_sanity = v32.v_sanity;
247     extv.v_version = v32.v_version;
248     bcopy(v32.v_volume, extv.v_volume, LEN_DKL_VVOL);
249     extv.v_sectorsz = v32.v_sectorsz;
250     extv.v_nparts = v32.v_nparts;
251     extv.v_version = v32.v_version;
252     for (i = 0; i < 10; i++)
253         extv.v_reserved[i] = v32.v_reserved[i];
254     for (i = 0; i < V_NUMPAR; i++) {
255         extv.v_part[i].p_tag = (ushort_t)v32.v_part[i].p_tag;
256         extv.v_part[i].p_flag = (ushort_t)v32.v_part[i].p_flag;
257         extv.v_part[i].p_start = (diskaddr_t)v32.v_part[i].p_start;
258         extv.v_part[i].p_size = (diskaddr_t)v32.v_part[i].p_size;
259         extv.timestamp[i] = (time_t)v32.timestamp[i];
260     }
261     bcopy(v32.v_asciilabel, extv.v_asciilabel, LEN_DKL_ASCII);
262 }

265 #define vtoc2toextvtoc(v, v32)
266 {
267     int i;
268     v32.v_bootinfo[0] = v.v_bootinfo[0];
269     v32.v_bootinfo[1] = v.v_bootinfo[1];
270     v32.v_bootinfo[2] = v.v_bootinfo[2];
271     v32.v_sanity = v.v_sanity;
272     v32.v_version = v.v_version;
273     bcopy(v.v_volume, v32.v_volume, LEN_DKL_VVOL);
274     v32.v_sectorsz = v.v_sectorsz;
275     v32.v_nparts = v.v_nparts;
276     v32.v_version = v.v_version;
277     for (i = 0; i < 10; i++)
278         v32.v_reserved[i] = v.v_reserved[i];
279     for (i = 0; i < V_NUMPAR; i++) {
280         v32.v_part[i].p_tag = (ushort_t)v.v_part[i].p_tag;
281         v32.v_part[i].p_flag = (ushort_t)v.v_part[i].p_flag;
282         v32.v_part[i].p_start = (unsigned)v.v_part[i].p_start;
283         v32.v_part[i].p_size = (unsigned)v.v_part[i].p_size;
284     }
285     for (i = 0; i < V_NUMPAR; i++) {
286         if (v.timestamp[i] > TIME32_MAX)
287             v32.timestamp[i] = TIME32_MAX;
288         else
289             v32.timestamp[i] = (time32_t)v.timestamp[i];
290     }
291     bcopy(v.v_asciilabel, v32.v_asciilabel, LEN_DKL_ASCII);
292 }

294 #define extvtoc2tovtoc(extv, v32)
295 {
296     int i;
297     v32.v_bootinfo[0] = extv.v_bootinfo[0];
298     v32.v_bootinfo[1] = extv.v_bootinfo[1];
299     v32.v_bootinfo[2] = extv.v_bootinfo[2];

```

```

300     v32.v_sanity = extv.v_sanity;
301     v32.v_version = extv.v_version;
302     bcopy(extv.v_volume, v32.v_volume, LEN_DKL_VVOL);
303     v32.v_sectorsz = extv.v_sectorsz;
304     v32.v_nparts = extv.v_nparts;
305     v32.v_version = extv.v_version;
306     for (i = 0; i < 10; i++)
307         v32.v_reserved[i] = extv.v_reserved[i];
308     for (i = 0; i < V_NUMPAR; i++) {
309         v32.v_part[i].p_tag = (ushort_t)extv.v_part[i].p_tag;
310         v32.v_part[i].p_flag = (ushort_t)extv.v_part[i].p_flag;
311         v32.v_part[i].p_start = (unsigned)extv.v_part[i].p_start;
312         v32.v_part[i].p_size = (unsigned)extv.v_part[i].p_size;
313     }
314     for (i = 0; i < V_NUMPAR; i++) {
315         if (extv.timestamp[i] > TIME32_MAX)
316             v32.timestamp[i] = TIME32_MAX;
317         else
318             v32.timestamp[i] = (time32_t)extv.timestamp[i];
319     }
320     bcopy(extv.v_asciilabel, v32.v_asciilabel, LEN_DKL_ASCII);
321 }

324 #endif /* _SYSCALL32 */

326 /*
327  * These defines are the mode parameter for the checksum routines.
328  */
329 #define CK_CHECKSUM 0 /* check checksum */
330 #define CK_MAKESUM 1 /* generate checksum */

330 #if defined(__STDC__)

332 extern int read_vtoc(int, struct vtoc *);
333 extern int write_vtoc(int, struct vtoc *);
334 extern int read_extvtoc(int, struct extvtoc *);
335 extern int write_extvtoc(int, struct extvtoc *);

337 #else

339 extern int read_vtoc();
340 extern int write_vtoc();
341 extern int read_extvtoc();
342 extern int write_extvtoc();

344 #endif /* __STDC__ */

337 #ifdef __cplusplus
338 }

```

\_\_\_\_\_unchanged\_portion\_omitted\_\_\_\_\_

new/usr/src/uts/common/sys/wait.h

1

```
*****
3821 Sat Aug  2 23:27:29 2014
new/usr/src/uts/common/sys/wait.h
remove support for non-ANSI compilation
*****
1 /*
2  * CDDL HEADER START
3  *
4  * The contents of this file are subject to the terms of the
5  * Common Development and Distribution License, Version 1.0 only
6  * (the "License"). You may not use this file except in compliance
7  * with the License.
8  *
9  * You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
10 * or http://www.opensolaris.org/os/licensing.
11 * See the License for the specific language governing permissions
12 * and limitations under the License.
13 *
14 * When distributing Covered Code, include this CDDL HEADER in each
15 * file and include the License file at usr/src/OPENSOLARIS.LICENSE.
16 * If applicable, add the following below this CDDL HEADER, with the
17 * fields enclosed by brackets "[]" replaced with your own identifying
18 * information: Portions Copyright [yyyy] [name of copyright owner]
19 *
20 * CDDL HEADER END
21 */
22 /*      Copyright (c) 1984, 1986, 1987, 1988, 1989 AT&T */
23 /*      All Rights Reserved      */

25 /*
26  * Copyright 2014 Garrett D'Amore <garrett@damore.org>
27  *
28  * Copyright 2004 Sun Microsystems, Inc. All rights reserved.
29  * Use is subject to license terms.
30  */

32 #ifndef _SYS_WAIT_H
33 #define _SYS_WAIT_H

34 #pragma ident      "%Z%M% %I%      %E% SMI"      /* SVr4.0 1.10 */

35 #include <sys/feature_tests.h>

37 #include <sys/types.h>

39 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
40 #include <sys/resource.h>      /* Added for XSH4.2 */
41 #include <sys/signinfo.h>
42 #include <sys/procset.h>
43 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(__XPG4_2) ... */

45 #ifdef __cplusplus
46 extern "C" {
47 #endif

49 /*
50  * arguments to wait functions
51  */

53 #define WUNTRACED      0004      /* wait for processes stopped by signals */
54 #define WNOHANG      0100      /* non blocking form of wait      */

57 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
58 #define WEXITED      0001      /* wait for processes that have exited */
```

new/usr/src/uts/common/sys/wait.h

2

```
59 #define WTRAPPED      0002      /* wait for processes stopped while tracing */
60 #define WSTOPPED      WUNTRACED /* backwards compatibility */
61 #define WCONTINUED      0010      /* wait for processes continued */
62 #define WNOWAIT      0200      /* non destructive form of wait */
63 #define WOFTMASK (WEXITED|WTRAPPED|WSTOPPED|WCONTINUED|WNOHANG|WNOWAIT)
64 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(__XPG4_2) ... */

66 /*
67  * macros for stat return from wait functions
68  */

70 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)

72 #define WSTOPFLG      0177
73 #define WCONTFLG      0177777
74 #define WCOREFLG      0200
75 #define WSIGMASK      0177

77 #define WLOBYTE(stat)      ((int)((stat)&0377))
78 #define WHIBYTE(stat)      ((int)(((stat)>>8)&0377))
79 #define WWORD(stat)      ((int)((stat)&0177777))

81 #define WIFCONTINUED(stat)      (WWORD(stat) == WCONTFLG)
82 #define WCOREDUMP(stat)      ((stat)&WCOREFLG)

84 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(__XPG4_2) ... */

86 #define WIFEXITED(stat)      ((int)((stat)&0xFF) == 0)
87 #define WIFSIGNALED(stat)      ((int)((stat)&0xFF) > 0 && \
88      (int)((stat)&0xFF00) == 0)
89 #define WIFSTOPPED(stat)      ((int)((stat)&0xFF) == 0177 && \
90      (int)((stat)&0xFF00) != 0)
91 #define WEXITSTATUS(stat)      ((int)(((stat)>>8)&0xFF))
92 #define WTERMSIG(stat)      ((int)((stat)&0x7F))
93 #define WSTOPSIG(stat)      ((int)(((stat)>>8)&0xFF))

96 #if !defined(_KERNEL)
97 #if defined(__STDC__)

98 extern pid_t wait(int *);
99 extern pid_t waitpid(pid_t, int *, int);

101 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
102 extern int waitid(idtype_t, id_t, signinfo_t *, int);
103 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
104 #if !defined(__XPG6) || defined(__EXTENSIONS__)
105 extern pid_t wait3(int *, int, struct rusage *);
106 #endif /* !defined(__XPG6) || defined(__EXTENSIONS__) */
107 #endif /* !defined(__XOPEN_OR_POSIX) || (defined(__XPG4_2) ... */

109 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
110 extern pid_t wait4(pid_t, int *, int, struct rusage *);
111 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

115 #else /* __STDC__ */

117 extern pid_t wait();
118 extern pid_t waitpid();
119 #if !defined(__XOPEN_OR_POSIX) || defined(__XPG4_2) || defined(__EXTENSIONS__)
120 extern int waitid();
121 /* Marked as LEGACY in SUSv2 and removed in SUSv3 */
122 #if !defined(__XPG6) || defined(__EXTENSIONS__)
123 extern pid_t wait3();
124 #endif /* !defined(__XPG6) || defined(__EXTENSIONS__) */
125 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */
```

```
127 #if !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__)
128 extern pid_t wait4();
129 #endif /* !defined(__XOPEN_OR_POSIX) || defined(__EXTENSIONS__) */

131 #endif /* __STDC__ */
113 #endif /* _KERNEL */

115 #ifdef __cplusplus
116 }
_____unchanged_portion_omitted_____
```