```
**********************************************************
   17264 Fri May  2 17:45:50 2014
new/usr/src/cmd/sgs/elfdump/common/gen_struct_layout.c
4839 3294 generated elfdump struct layouts by hand, shouldn't have
**********************************************************
```

```
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 *
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 */

/*
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 */
#pragma ident   "%Z%%M% %I%     %E% SMI"

#include <stdlib.h>
#include <stddef.h>
#include <stdio.h>
#include <string.h>
#include <fcntl.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <unistd.h>
#include <sys/sysmacros.h>
#include <sys/corectl.h>
#include <procfs.h>
#include <sys/auxv.h>
#include <sys/old_procfs.h>
#include <sys/utsname.h>



/*
 * This standalone program is used to generate the contents
 * of the struct_layout_XXX.c files that contain per-archtecture
 * structure layout information.
 *
 * Although not part of elfdump, it is built by the makefile
 * along with it.
 * To use it:
 *
 *      1) Run it, capturing the output in a file.
 *      2) If this is a replacement for an existing file,
 *              diff the new and old copies to ensure only
 *              the changes you expected are present.
 *      3) Put the new file in the common directory under the name
 *              struct_layout_XXX.c, where XXX is the name of
 *              the architecture (i386, amd64, sparc, sparcv9, etc).
```

```
 *      2) Add any necessary header and copyright comments.
 *      3) If this is a new architecture:
 *              - Add an extern statement for struct_layout_XXX()
 *                      to struct_layout.h
 *              - Add a case for it to the function sl_struct_layout()
 *                      in struct_layout.c.
 */


/*
 * Which machine is this build for?
 */
#if defined(__i386)

#define MACH    "i386"

#elif defined(__amd64)

#define MACH    "amd64"

#elif defined(__sparcv9)

#define MACH    "sparcv9"

#elif defined(__sparc)

#define MACH    "sparc"

#else

#error "unrecognized build host type"

#endif


/*
 * START and END bracket a struct layout definition. They issue
 * the typedef boilerplate, and the standard first element (sizeof)
 * which captures the overall size of the structure.
 *
 * SCALAR_FIELD is for scalar struct fields
 *
 * ARRAY_FIELD is for  array struct fields
 *
 * ARRAY is for plain (non-struct) array types
 */
#define START(_name, _type) \
        (void) printf("\n\nstatic const sl_" #_name \
            "_layout_t " #_name "_layout = {\n"); \
        (void) printf("\t{ 0,\t%d,\t0,\t0 },\t\t/* sizeof (%s) */\n", \
            sizeof (_type), #_type)
#define SCALAR_FIELD(_type, _field, _sign) \
        (void) printf("\t{ %d,\t%d,\t0,\t%d },\t\t/* " #_field " */\n", \
            offsetof(_type, _field), sizeof (((_type *)0)->_field), _sign)
#define ARRAY_FIELD(_type, _field, _sign) \
        (void) printf("\t{ %d,\t%d,\t%d,\t%d },\t\t/* " #_field "[] */\n", \
            offsetof(_type, _field), sizeof (((_type *)0)->_field[0]), \
            sizeof (((_type *)0)->_field) / sizeof (((_type *)0)->_field[0]), \
            _sign)
#define ARRAY(_type, _sign) \
        (void) printf("\t{ 0,\t%d,\t%d,\t%d },\t\t/* elt0 */\n", \
            sizeof (*((_type *)0)[0]), \
            sizeof (_type) / sizeof (*((_type *)0)[0]), _sign)
#define END (void) printf("};\n")
```

```
/* auxv_t, <sys/auxv.h> */
static void
gen_auxv(void)
{
        START(auxv, auxv_t);

        SCALAR_FIELD(auxv_t,    a_type, 1);
        SCALAR_FIELD(auxv_t,    a_un.a_val,     1);
        SCALAR_FIELD(auxv_t,    a_un.a_ptr,     0);
        SCALAR_FIELD(auxv_t,    a_un.a_fcn,     0);

        END;
}
```

______*unchanged_portion_omitted_*

```
static void
gen_prfdinfo(void)
{
        START(prfdinfo, prfdinfo_t);

        SCALAR_FIELD(prfdinfo_t,        pr_fd,          0);
        SCALAR_FIELD(prfdinfo_t,        pr_mode,        0);
        SCALAR_FIELD(prfdinfo_t,        pr_uid,         0);
        SCALAR_FIELD(prfdinfo_t,        pr_gid,         0);
        SCALAR_FIELD(prfdinfo_t,        pr_major,       0);
        SCALAR_FIELD(prfdinfo_t,        pr_minor,       0);
        SCALAR_FIELD(prfdinfo_t,        pr_rmajor,      0);
        SCALAR_FIELD(prfdinfo_t,        pr_rminor,      0);
        SCALAR_FIELD(prfdinfo_t,        pr_ino,         0);
        SCALAR_FIELD(prfdinfo_t,        pr_offset,      0);
        SCALAR_FIELD(prfdinfo_t,        pr_size,        0);
        SCALAR_FIELD(prfdinfo_t,        pr_fileflags,   0);
        SCALAR_FIELD(prfdinfo_t,        pr_fdflags,     0);
        ARRAY_FIELD(prfdinfo_t,         pr_path,        0);

        END;
}

#endif /* ! codereview */

/*ARGSUSED*/
int
main(int argc, char *argv[])
{
        const char *fmt = "\t&%s_layout,\n";

        printf("#include <struct_layout.h>\n");

        gen_auxv();
        gen_prgregset();
        gen_lwpstatus();
        gen_pstatus();
        gen_prstatus();
        gen_psinfo();
        gen_prpsinfo();
        gen_lwpsinfo();
        gen_prcred();
        gen_prpriv();
        gen_priv_impl_info();
        gen_fltset();
        gen_siginfo();
        gen_sigset();
        gen_sigaction();
        gen_stack();
        gen_sysset();
        gen_timestruc();
```

```
        gen_utsname();
        gen_prfdinfo();
#endif /* ! codereview */


        /*
         * Generate the full arch_layout description
         */
        (void) printf(
            "\n\n\n\nstatic const sl_arch_layout_t layout_%s = {\n",
            MACH);
        (void) printf(fmt, "auxv");
        (void) printf(fmt, "fltset");
        (void) printf(fmt, "lwpsinfo");
        (void) printf(fmt, "lwpstatus");
        (void) printf(fmt, "prcred");
        (void) printf(fmt, "priv_impl_info");
        (void) printf(fmt, "prpriv");
        (void) printf(fmt, "psinfo");
        (void) printf(fmt, "pstatus");
        (void) printf(fmt, "prgregset");
        (void) printf(fmt, "prpsinfo");
        (void) printf(fmt, "prstatus");
        (void) printf(fmt, "sigaction");
        (void) printf(fmt, "siginfo");
        (void) printf(fmt, "sigset");
        (void) printf(fmt, "stack");
        (void) printf(fmt, "sysset");
        (void) printf(fmt, "timestruc");
        (void) printf(fmt, "utsname");
        (void) printf(fmt, "prfdinfo");
#endif /* ! codereview */
        (void) printf("};\n");

        /*
         * A public function, to make the information available
         */
        (void) printf("\n\nconst sl_arch_layout_t *\n");
        (void) printf("struct_layout_%s(void)\n", MACH);
        (void) printf("{\n\treturn (&layout_%s);\n}\n", MACH);

        return (0);
}
```

```
**********************************************************
   12240 Fri May  2 17:45:50 2014
new/usr/src/cmd/sgs/elfdump/common/struct_layout_amd64.c
4839 3294 generated elfdump struct layouts by hand, shouldn't have
**********************************************************
______unchanged_portion_omitted_
```

```
static const sl_prfdinfo_layout_t prfdinfo_layout = {
        { 0,    1088,   0,      0 },            /* sizeof (prfdinfo_t) */
        { 0,    4,      0,      0 },            /* pr_fd */
        { 4,    4,      0,      0 },            /* pr_mode */
        { 8,    4,      0,      0 },            /* pr_uid */
        { 12,   4,      0,      0 },            /* pr_gid */
        { 16,   4,      0,      0 },            /* pr_major */
        { 20,   4,      0,      0 },            /* pr_minor */
        { 24,   4,      0,      0 },            /* pr_rmajor */
        { 28,   4,      0,      0 },            /* pr_rminor */
        { 32,   8,      0,      0 },            /* pr_ino */
        { 40,   8,      0,      0 },            /* pr_offset */
        { 48,   8,      0,      0 },            /* pr_size */
        { 56,   4,      0,      0 },            /* pr_fileflags */
        { 56,   4,      0,      0 },            /* pr_filefags */
        { 60,   4,      0,      0 },            /* pr_fdflags */
        { 64,   1,      1024,   0 },            /* pr_path[] */
        { 64,   1,      1024,   0 },            /* pr_path */
};
```

```
#endif /* ! codereview */
static const sl_arch_layout_t layout_amd64 = {
        &auxv_layout,
        &fltset_layout,
        &lwpsinfo_layout,
        &lwpstatus_layout,
        &prcred_layout,
        &priv_impl_info_layout,
        &prpriv_layout,
        &psinfo_layout,
        &pstatus_layout,
        &prgregset_layout,
        &prpsinfo_layout,
        &prstatus_layout,
        &sigaction_layout,
        &siginfo_layout,
        &sigset_layout,
        &stack_layout,
        &sysset_layout,
        &timestruc_layout,
        &utsname_layout,
        &prfdinfo_layout,
};


const sl_arch_layout_t *
struct_layout_amd64(void)
{
        return (&layout_amd64);
}
```

```
**********************************************************
   12195 Fri May  2 17:45:50 2014
new/usr/src/cmd/sgs/elfdump/common/struct_layout_i386.c
4839 3294 generated elfdump struct layouts by hand, shouldn't have
**********************************************************
/*
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 *
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 */

/*
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 */
/*
 * Copyright 2012 DEY Storage Systems, Inc.  All rights reserved.
 */

#include <struct_layout.h>



#endif /* ! codereview */
static const sl_auxv_layout_t auxv_layout = {
        { 0,    8,      0,      0 },            /* sizeof (auxv_t) */
        { 0,    4,      0,      1 },            /* a_type */
        { 4,    4,      0,      1 },            /* a_un.a_val */
        { 4,    4,      0,      0 },            /* a_un.a_ptr */
        { 4,    4,      0,      0 },            /* a_un.a_fcn */
};


static const sl_prgregset_layout_t prgregset_layout = {
        { 0,    76,     0,      0 },            /* sizeof (prgregset_t) */
        { 0,    4,      19,     0 },            /* elt0 */
};


static const sl_lwpstatus_layout_t lwpstatus_layout = {
        { 0,    800,    0,      0 },            /* sizeof (lwpstatus_t) */
        { 0,    4,      0,      0 },            /* pr_flags */
        { 4,    4,      0,      0 },            /* pr_lwpid */
        { 8,    2,      0,      0 },            /* pr_why */
        { 10,   2,      0,      0 },            /* pr_what */
        { 12,   2,      0,      0 },            /* pr_cursig */
        { 16,   128,    0,      0 },            /* pr_info */
        { 144,  16,     0,      0 },            /* pr_lwppend */
        { 160,  16,     0,      0 },            /* pr_lwphold */
        { 176,  32,     0,      0 },            /* pr_action */
        { 208,  12,     0,      0 },            /* pr_altstack */
```

```
        { 220,  4,      0,      0 },            /* pr_oldcontext */
        { 224,  2,      0,      0 },            /* pr_syscall */
        { 226,  2,      0,      0 },            /* pr_nsysarg */
        { 228,  4,      0,      0 },            /* pr_errno */
        { 232,  4,      8,      0 },            /* pr_sysarg[] */
        { 264,  4,      0,      0 },            /* pr_rval1 */
        { 268,  4,      0,      0 },            /* pr_rval2 */
        { 272,  1,      8,      0 },            /* pr_clname[] */
        { 280,  8,      0,      0 },            /* pr_tstamp */
        { 288,  8,      0,      0 },            /* pr_utime */
        { 296,  8,      0,      0 },            /* pr_stime */
        { 332,  4,      0,      0 },            /* pr_errpriv */
        { 336,  4,      0,      0 },            /* pr_ustack */
        { 340,  4,      0,      0 },            /* pr_instr */
        { 344,  76,     0,      0 },            /* pr_reg */
        { 420,  380,    0,      0 },            /* pr_fpreg */
};


static const sl_pstatus_layout_t pstatus_layout = {
        { 0,    1136,   0,      0 },            /* sizeof (pstatus_t) */
        { 0,    4,      0,      1 },            /* pr_flags */
        { 4,    4,      0,      1 },            /* pr_nlwp */
        { 8,    4,      0,      0 },            /* pr_pid */
        { 12,   4,      0,      0 },            /* pr_ppid */
        { 16,   4,      0,      0 },            /* pr_pgid */
        { 20,   4,      0,      0 },            /* pr_sid */
        { 24,   4,      0,      1 },            /* pr_aslwpid */
        { 28,   4,      0,      1 },            /* pr_agentid */
        { 32,   16,     0,      0 },            /* pr_sigpend */
        { 48,   4,      0,      0 },            /* pr_brkbase */
        { 52,   4,      0,      0 },            /* pr_brksize */
        { 56,   4,      0,      0 },            /* pr_stkbase */
        { 60,   4,      0,      0 },            /* pr_stksize */
        { 64,   8,      0,      0 },            /* pr_utime */
        { 72,   8,      0,      0 },            /* pr_stime */
        { 80,   8,      0,      0 },            /* pr_cutime */
        { 88,   8,      0,      0 },            /* pr_cstime */
        { 96,   16,     0,      0 },            /* pr_sigtrace */
        { 112,  16,     0,      0 },            /* pr_flttrace */
        { 128,  64,     0,      0 },            /* pr_sysentry */
        { 192,  64,     0,      0 },            /* pr_sysexit */
        { 256,  1,      0,      0 },            /* pr_dmodel */
        { 260,  4,      0,      1 },            /* pr_taskid */
        { 264,  4,      0,      1 },            /* pr_projid */
        { 268,  4,      0,      1 },            /* pr_nzomb */
        { 272,  4,      0,      1 },            /* pr_zoneid */
        { 336,  800,    0,      0 },            /* pr_lwp */
};


static const sl_prstatus_layout_t prstatus_layout = {
        { 0,    432,    0,      0 },            /* sizeof (prstatus_t) */
        { 0,    4,      0,      1 },            /* pr_flags */
        { 4,    2,      0,      1 },            /* pr_why */
        { 6,    2,      0,      1 },            /* pr_what */
        { 8,    128,    0,      0 },            /* pr_info */
        { 136,  2,      0,      1 },            /* pr_cursig */
        { 138,  2,      0,      0 },            /* pr_nlwp */
        { 140,  16,     0,      0 },            /* pr_sigpend */
        { 156,  16,     0,      0 },            /* pr_sighold */
        { 172,  12,     0,      0 },            /* pr_altstack */
        { 184,  32,     0,      0 },            /* pr_action */
        { 216,  4,      0,      0 },            /* pr_pid */
        { 220,  4,      0,      0 },            /* pr_ppid */
        { 224,  4,      0,      0 },            /* pr_pgrp */
        { 228,  4,      0,      0 },            /* pr_sid */
        { 232,  8,      0,      0 },            /* pr_utime */
        { 240,  8,      0,      0 },            /* pr_stime */
        { 248,  8,      0,      0 },            /* pr_cutime */
        { 256,  8,      0,      0 },            /* pr_cstime */
        { 264,  1,      8,      0 },            /* pr_clname[] */
        { 272,  2,      0,      1 },            /* pr_syscall */
        { 274,  2,      0,      1 },            /* pr_nsysarg */
        { 276,  4,      8,      1 },            /* pr_sysarg[] */
        { 308,  4,      0,      0 },            /* pr_who */
        { 312,  16,     0,      0 },            /* pr_lwppend */
        { 328,  4,      0,      0 },            /* pr_oldcontext */
        { 332,  4,      0,      0 },            /* pr_brkbase */
        { 336,  4,      0,      0 },            /* pr_brksize */
        { 340,  4,      0,      0 },            /* pr_stkbase */
        { 344,  4,      0,      0 },            /* pr_stksize */
        { 348,  2,      0,      1 },            /* pr_processor */
        { 350,  2,      0,      1 },            /* pr_bind */
        { 352,  4,      0,      1 },            /* pr_instr */
        { 356,  76,     0,      0 },            /* pr_reg */
};


static const sl_psinfo_layout_t psinfo_layout = {
        { 0,    336,    0,      0 },            /* sizeof (psinfo_t) */
        { 0,    4,      0,      1 },            /* pr_flag */
        { 4,    4,      0,      1 },            /* pr_nlwp */
        { 8,    4,      0,      0 },            /* pr_pid */
        { 12,   4,      0,      0 },            /* pr_ppid */
        { 16,   4,      0,      0 },            /* pr_pgid */
        { 20,   4,      0,      0 },            /* pr_sid */
        { 24,   4,      0,      0 },            /* pr_uid */
        { 28,   4,      0,      0 },            /* pr_euid */
        { 32,   4,      0,      0 },            /* pr_gid */
        { 36,   4,      0,      0 },            /* pr_egid */
        { 40,   4,      0,      0 },            /* pr_addr */
        { 44,   4,      0,      0 },            /* pr_size */
        { 48,   4,      0,      0 },            /* pr_rssize */
        { 56,   4,      0,      0 },            /* pr_ttydev */
        { 60,   2,      0,      0 },            /* pr_pctcpu */
        { 62,   2,      0,      0 },            /* pr_pctmem */
        { 64,   8,      0,      0 },            /* pr_start */
        { 72,   8,      0,      0 },            /* pr_time */
        { 80,   8,      0,      0 },            /* pr_ctime */
        { 88,   1,      16,     0 },            /* pr_fname[] */
        { 104,  1,      80,     0 },            /* pr_psargs[] */
        { 184,  4,      0,      1 },            /* pr_wstat */
        { 188,  4,      0,      1 },            /* pr_argc */
        { 192,  4,      0,      0 },            /* pr_argv */
        { 196,  4,      0,      0 },            /* pr_envp */
        { 200,  1,      0,      0 },            /* pr_dmodel */
        { 204,  4,      0,      0 },            /* pr_taskid */
        { 208,  4,      0,      0 },            /* pr_projid */
        { 212,  4,      0,      1 },            /* pr_nzomb */
        { 216,  4,      0,      0 },            /* pr_poolid */
        { 220,  4,      0,      0 },            /* pr_zoneid */
        { 224,  4,      0,      0 },            /* pr_contract */
        { 232,  104,    0,      0 },            /* pr_lwp */
};


static const sl_prpsinfo_layout_t prpsinfo_layout = {
        { 0,    260,    0,      0 },            /* sizeof (prpsinfo_t) */
        { 0,    1,      0,      0 },            /* pr_state */
        { 1,    1,      0,      0 },            /* pr_sname */
        { 2,    1,      0,      0 },            /* pr_zomb */
```

```
        { 3,    1,      0,      0 },            /* pr_nice */
        { 4,    4,      0,      0 },            /* pr_flag */
        { 8,    4,      0,      0 },            /* pr_uid */
        { 12,   4,      0,      0 },            /* pr_gid */
        { 16,   4,      0,      0 },            /* pr_pid */
        { 20,   4,      0,      0 },            /* pr_ppid */
        { 24,   4,      0,      0 },            /* pr_pgrp */
        { 28,   4,      0,      0 },            /* pr_sid */
        { 32,   4,      0,      0 },            /* pr_addr */
        { 36,   4,      0,      0 },            /* pr_size */
        { 40,   4,      0,      0 },            /* pr_rssize */
        { 44,   4,      0,      0 },            /* pr_wchan */
        { 48,   8,      0,      0 },            /* pr_start */
        { 56,   8,      0,      0 },            /* pr_time */
        { 64,   4,      0,      1 },            /* pr_pri */
        { 68,   1,      0,      0 },            /* pr_oldpri */
        { 69,   1,      0,      0 },            /* pr_cpu */
        { 70,   2,      0,      0 },            /* pr_ottydev */
        { 72,   4,      0,      0 },            /* pr_lttydev */
        { 76,   1,      8,      0 },            /* pr_clname[] */
        { 84,   1,      16,     0 },            /* pr_fname[] */
        { 100,  1,      80,     0 },            /* pr_psargs[] */
        { 180,  2,      0,      1 },            /* pr_syscall */
        { 184,  8,      0,      0 },            /* pr_ctime */
        { 192,  4,      0,      0 },            /* pr_bysize */
        { 196,  4,      0,      0 },            /* pr_byrssize */
        { 200,  4,      0,      1 },            /* pr_argc */
        { 204,  4,      0,      0 },            /* pr_argv */
        { 208,  4,      0,      0 },            /* pr_envp */
        { 212,  4,      0,      1 },            /* pr_wstat */
        { 216,  2,      0,      0 },            /* pr_pctcpu */
        { 218,  2,      0,      0 },            /* pr_pctmem */
        { 220,  4,      0,      0 },            /* pr_euid */
        { 224,  4,      0,      0 },            /* pr_egid */
        { 228,  4,      0,      0 },            /* pr_aslwpid */
        { 232,  1,      0,      0 },            /* pr_dmodel */
};


static const sl_lwpsinfo_layout_t lwpsinfo_layout = {
        { 0,    104,    0,      0 },            /* sizeof (lwpsinfo_t) */
        { 0,    4,      0,      1 },            /* pr_flag */
        { 4,    4,      0,      0 },            /* pr_lwpid */
        { 8,    4,      0,      0 },            /* pr_addr */
        { 12,   4,      0,      0 },            /* pr_wchan */
        { 16,   1,      0,      0 },            /* pr_stype */
        { 17,   1,      0,      0 },            /* pr_state */
        { 18,   1,      0,      0 },            /* pr_sname */
        { 19,   1,      0,      0 },            /* pr_nice */
        { 20,   2,      0,      0 },            /* pr_syscall */
        { 22,   1,      0,      0 },            /* pr_oldpri */
        { 23,   1,      0,      0 },            /* pr_cpu */
        { 24,   4,      0,      1 },            /* pr_pri */
        { 28,   2,      0,      0 },            /* pr_pctcpu */
        { 32,   8,      0,      0 },            /* pr_start */
        { 40,   8,      0,      0 },            /* pr_time */
        { 48,   1,      8,      0 },            /* pr_clname[] */
        { 56,   1,      16,     0 },            /* pr_name[] */
        { 72,   4,      0,      1 },            /* pr_onpro */
        { 76,   4,      0,      1 },            /* pr_bindpro */
        { 80,   4,      0,      1 },            /* pr_bindpset */
        { 84,   4,      0,      1 },            /* pr_lgrp */
};


static const sl_prcred_layout_t prcred_layout = {
        { 0,    32,     0,      0 },            /* sizeof (prcred_t) */
        { 0,    4,      0,      0 },            /* pr_euid */
        { 4,    4,      0,      0 },            /* pr_ruid */
        { 8,    4,      0,      0 },            /* pr_suid */
        { 12,   4,      0,      0 },            /* pr_egid */
        { 16,   4,      0,      0 },            /* pr_rgid */
        { 20,   4,      0,      0 },            /* pr_sgid */
        { 24,   4,      0,      1 },            /* pr_ngroups */
        { 28,   4,      1,      0 },            /* pr_groups[] */
};


static const sl_prpriv_layout_t prpriv_layout = {
        { 0,    16,     0,      0 },            /* sizeof (prpriv_t) */
        { 0,    4,      0,      0 },            /* pr_nsets */
        { 4,    4,      0,      0 },            /* pr_setsize */
        { 8,    4,      0,      0 },            /* pr_infosize */
        { 12,   4,      1,      0 },            /* pr_sets[] */
};


static const sl_priv_impl_info_layout_t priv_impl_info_layout = {
        { 0,    28,     0,      0 },            /* sizeof (priv_impl_info_t) */
        { 0,    4,      0,      0 },            /* priv_headersize */
        { 4,    4,      0,      0 },            /* priv_flags */
        { 8,    4,      0,      0 },            /* priv_nsets */
        { 12,   4,      0,      0 },            /* priv_setsize */
        { 16,   4,      0,      0 },            /* priv_max */
        { 20,   4,      0,      0 },            /* priv_infosize */
        { 24,   4,      0,      0 },            /* priv_globalinfosize */
};


static const sl_fltset_layout_t fltset_layout = {
        { 0,    16,     0,      0 },            /* sizeof (fltset_t) */
        { 0,    4,      4,      0 },            /* word[] */
};


static const sl_siginfo_layout_t siginfo_layout = {
        { 0,    128,    0,      0 },            /* sizeof (siginfo_t) */
        { 0,    4,      0,      0 },            /* si_signo */
        { 8,    4,      0,      0 },            /* si_errno */
        { 4,    4,      0,      1 },            /* si_code */
        { 20,   4,      0,      0 },            /* si_value.sival_int */
        { 20,   4,      0,      0 },            /* si_value.sival_ptr */
        { 12,   4,      0,      0 },            /* si_pid */
        { 16,   4,      0,      0 },            /* si_uid */
        { 28,   4,      0,      0 },            /* si_ctid */
        { 32,   4,      0,      0 },            /* si_zoneid */
        { 12,   4,      0,      0 },            /* si_entity */
        { 12,   4,      0,      0 },            /* si_addr */
        { 20,   4,      0,      0 },            /* si_status */
        { 16,   4,      0,      0 },            /* si_band */
};


static const sl_sigset_layout_t sigset_layout = {
        { 0,    16,     0,      0 },            /* sizeof (sigset_t) */
        { 0,    4,      4,      0 },            /* __sigbits[] */
};


static const sl_sigaction_layout_t sigaction_layout = {
        { 0,    32,     0,      0 },            /* sizeof (struct sigaction) */
        { 0,    4,      0,      0 },            /* sa_flags */
```

```
        { 4,    4,      0,      0 },            /* sa_handler */
        { 4,    4,      0,      0 },            /* sa_sigaction */
        { 8,    16,     0,      0 },            /* sa_mask */
};


static const sl_stack_layout_t stack_layout = {
        { 0,    12,     0,      0 },            /* sizeof (stack_t) */
        { 0,    4,      0,      0 },            /* ss_sp */
        { 4,    4,      0,      0 },            /* ss_size */
        { 8,    4,      0,      0 },            /* ss_flags */
};


static const sl_sysset_layout_t sysset_layout = {
        { 0,    64,     0,      0 },            /* sizeof (sysset_t) */
        { 0,    4,      16,     0 },            /* word[] */
};


static const sl_timestruc_layout_t timestruc_layout = {
        { 0,    8,      0,      0 },            /* sizeof (timestruc_t) */
        { 0,    4,      0,      0 },            /* tv_sec */
        { 4,    4,      0,      0 },            /* tv_nsec */
};


static const sl_utsname_layout_t utsname_layout = {
        { 0,    1285,   0,      0 },            /* sizeof (struct utsname) */
        { 0,    1,      257,    0 },            /* sysname[] */
        { 257,  1,      257,    0 },            /* nodename[] */
        { 514,  1,      257,    0 },            /* release[] */
        { 771,  1,      257,    0 },            /* version[] */
        { 1028, 1,      257,    0 },            /* machine[] */
};


static const sl_prfdinfo_layout_t prfdinfo_layout = {
        { 0,    1088,   0,      0 },            /* sizeof (prfdinfo_t) */
        { 0,    4,      0,      0 },            /* pr_fd */
        { 4,    4,      0,      0 },            /* pr_mode */
        { 8,    4,      0,      0 },            /* pr_uid */
        { 12,   4,      0,      0 },            /* pr_gid */
        { 16,   4,      0,      0 },            /* pr_major */
        { 20,   4,      0,      0 },            /* pr_minor */
        { 24,   4,      0,      0 },            /* pr_rmajor */
        { 28,   4,      0,      0 },            /* pr_rminor */
        { 32,   8,      0,      0 },            /* pr_ino */
        { 40,   8,      0,      0 },            /* pr_offset */
        { 48,   8,      0,      0 },            /* pr_size */
        { 56,   4,      0,      0 },            /* pr_fileflags */
        { 56,   4,      0,      0 },    /* pr_filefags */
        { 60,   4,      0,      0 },            /* pr_fdflags */
        { 64,   1,      1024,   0 },            /* pr_path[] */
        { 64,   1,      1024,   0 },    /* pr_path */
};




#endif /* ! codereview */
static const sl_arch_layout_t layout_i386 = {
        &auxv_layout,
        &fltset_layout,
        &lwpsinfo_layout,
        &lwpstatus_layout,
	&prcred_layout,
	&priv_impl_info_layout,
	&prpriv_layout,
	&psinfo_layout,
	&pstatus_layout,
	&prgregset_layout,
	&prpsinfo_layout,
	&prstatus_layout,
	&sigaction_layout,
	&siginfo_layout,
	&sigset_layout,
	&stack_layout,
	&sysset_layout,
	&timestruc_layout,
	&utsname_layout,
	&prfdinfo_layout,
};


const sl_arch_layout_t *
struct_layout_i386(void)
{
	return (&layout_i386);
}
```

```
**********************************************************
   12197 Fri May  2 17:45:51 2014
new/usr/src/cmd/sgs/elfdump/common/struct_layout_sparc.c
4839 3294 generated elfdump struct layouts by hand, shouldn't have
**********************************************************
______unchanged_portion_omitted_

static const sl_prfdinfo_layout_t prfdinfo_layout = {
        { 0,    1088,   0,      0 },            /* sizeof (prfdinfo_t) */
        { 0,    4,      0,      0 },            /* pr_fd */
        { 4,    4,      0,      0 },            /* pr_mode */
        { 8,    4,      0,      0 },            /* pr_uid */
        { 12,   4,      0,      0 },            /* pr_gid */
        { 16,   4,      0,      0 },            /* pr_major */
        { 20,   4,      0,      0 },            /* pr_minor */
        { 24,   4,      0,      0 },            /* pr_rmajor */
        { 28,   4,      0,      0 },            /* pr_rminor */
        { 32,   8,      0,      0 },            /* pr_ino */
        { 40,   8,      0,      0 },            /* pr_offset */
        { 48,   8,      0,      0 },            /* pr_size */
        { 56,   4,      0,      0 },            /* pr_fileflags */
        { 56,   4,      0,      0 },            /* pr_filefags */
        { 60,   4,      0,      0 },            /* pr_fdflags */
        { 64,   1,      1024,   0 },            /* pr_path[] */
        { 64,   1,      1024,   0 },            /* pr_path */
};
______unchanged_portion_omitted_
```

```
**********************************************************
   12244 Fri May  2 17:45:51 2014
new/usr/src/cmd/sgs/elfdump/common/struct_layout_sparcv9.c
4839 3294 generated elfdump struct layouts by hand, shouldn't have
**********************************************************
______unchanged_portion_omitted_


static const sl_prfdinfo_layout_t prfdinfo_layout = {
        { 0,    1088,   0,      0 },            /* sizeof (prfdinfo_t) */
        { 0,    4,      0,      0 },            /* pr_fd */
        { 4,    4,      0,      0 },            /* pr_mode */
        { 8,    4,      0,      0 },            /* pr_uid */
        { 12,   4,      0,      0 },            /* pr_gid */
        { 16,   4,      0,      0 },            /* pr_major */
        { 20,   4,      0,      0 },            /* pr_minor */
        { 24,   4,      0,      0 },            /* pr_rmajor */
        { 28,   4,      0,      0 },            /* pr_rminor */
        { 32,   8,      0,      0 },            /* pr_ino */
        { 40,   8,      0,      0 },            /* pr_offset */
        { 48,   8,      0,      0 },            /* pr_size */
        { 56,   4,      0,      0 },            /* pr_fileflags */
        { 56,   4,      0,      0 },            /* pr_filefags */
        { 60,   4,      0,      0 },            /* pr_fdflags */
        { 64,   1,      1024,   0 },            /* pr_path[] */
        { 64,   1,      1024,   0 },            /* pr_path */
};
______unchanged_portion_omitted_
```