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*****
14208 Tue Apr 16 05:25:29 2019
new/usr/src/cmd/mdb/common/modules/disk_label/disk_label.c
10569 MDB module for disk labelling would be useful
*****
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 */

12 /*
13  * Copyright (c) 2019, Joyent, Inc.
14  */

16 /*
17  * The on-disk elements here are all little-endian, and this code doesn't make
18  * any attempt to adjust for running on a big-endian system.
19  *
20  * We also currently assume a 512-byte sized logical block.
21  */

23 #include <sys/types.h>
24 #include <sys/crc32.h>
25 #include <sys/debug.h>
26 #include <sys/sysmacros.h>
27 #include <sys/dktp/fdisk.h>
28 #include <sys/efi_partition.h>

30 #include <assert.h>
31 #include <ctype.h>
32 #include <uuid/uuid.h>

34 #include <mdb/mdb_modapi.h>
35 #include <mdb/mdb_debug.h>

37 #include "installboot.h"

39 #ifdef _BIG_ENDIAN
40 #error needs porting for big-endian system
41 #endif

43 /* See usr/src/grub/grub-0.97/stagel/stagel.h */
44 #define GRUB_VERSION_OFF (0x3e)
45 #define GRUB_COMPAT_VERSION_MAJOR 3
46 #define GRUB_COMPAT_VERSION_MINOR 2
47 #define GRUB_VERSION (2 << 8 | 3) /* 3.2 */

49 #define LOADER_VERSION (1)
50 #define LOADER_JOYENT_VERSION (2)

52 typedef enum {
53     MBR_TYPE_UNKNOWN,
54     MBR_TYPE_GRUB1,
55     MBR_TYPE_LOADER,
56     MBR_TYPE_LOADER_JOYENT,
57 } mbr_type_t;

59 static void
60 print_fdisk_part(struct ipart *ip, size_t nr)
61 {

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62     char typestr[128];
63     char begchs[128];
64     char endchs[128];
65     char *c = NULL;

67     if (ip->systid == UNUSED) {
68         mdb_printf("%-41lu %s:%#lx\n", nr, "UNUSED", ip->systid);
69         return;
70     }

72     switch (ip->systid) {
73     case DOSOS12: c = "DOSOS12"; break;
74     case PCIXOS: c = "PCIXOS"; break;
75     case DOSOS16: c = "DOSOS16"; break;
76     case EXTDOS: c = "EXTDOS"; break;
77     case DOSHUGE: c = "DOSHUGE"; break;
78     case FDISK_IFS: c = "FDISK_IFS"; break;
79     case FDISK_AIXBOOT: c = "FDISK_AIXBOOT"; break;
80     case FDISK_AIXDATA: c = "FDISK_AIXDATA"; break;
81     case FDISK_OS2BOOT: c = "FDISK_OS2BOOT"; break;
82     case FDISK_WINDOWS: c = "FDISK_WINDOWS"; break;
83     case FDISK_EXT_WIN: c = "FDISK_EXT_WIN"; break;
84     case FDISK_FAT95: c = "FDISK_FAT95"; break;
85     case FDISK_EXTLBA: c = "FDISK_EXTLBA"; break;
86     case DIAGPART: c = "DIAGPART"; break;
87     case FDISK_LINUX: c = "FDISK_LINUX"; break;
88     case FDISK_LINUXDSWAP: c = "FDISK_LINUXDSWAP"; break;
89     case FDISK_LINUXDNAT: c = "FDISK_LINUXDNAT"; break;
90     case FDISK_CPM: c = "FDISK_CPM"; break;
91     case DOSDATA: c = "DOSDATA"; break;
92     case OTHEROS: c = "OTHEROS"; break;
93     case UNIXOS: c = "UNIXOS"; break;
94     case FDISK_NOVELL2: c = "FDISK_NOVELL2"; break;
95     case FDISK_NOVELL3: c = "FDISK_NOVELL3"; break;
96     case FDISK_QNX4: c = "FDISK_QNX4"; break;
97     case FDISK_QNX42: c = "FDISK_QNX42"; break;
98     case FDISK_QNX43: c = "FDISK_QNX43"; break;
99     case SUNIXOS: c = "SUNIXOS"; break;
100    case FDISK_LINUXNAT: c = "FDISK_LINUXNAT"; break;
101    case FDISK_NTFSVOL1: c = "FDISK_NTFSVOL1"; break;
102    case FDISK_NTFSVOL2: c = "FDISK_NTFSVOL2"; break;
103    case FDISK_BSD: c = "FDISK_BSD"; break;
104    case FDISK_NEXTSTEP: c = "FDISK_NEXTSTEP"; break;
105    case FDISK_BSDIFD: c = "FDISK_BSDIFD"; break;
106    case FDISK_BSDISWAP: c = "FDISK_BSDISWAP"; break;
107    case X86BOOT: c = "X86BOOT"; break;
108    case SUNIXOS2: c = "SUNIXOS2"; break;
109    case EFI_PMBR: c = "EFI_PMBR"; break;
110    case EFI_FS: c = "EFI_FS"; break;
111    default: c = NULL; break;
112    }

114    if (c != NULL) {
115        mdb_snprintf(typestr, sizeof (typestr), "%s:%#lx",
116                    c, ip->systid);
117    } else {
118        mdb_snprintf(typestr, sizeof (typestr), "%#lx", ip->systid);
119    }

121    mdb_snprintf(begchs, sizeof (begchs), "%hu/%hu/%hu",
122                (uint16_t)ip->begcyl | (uint16_t)(ip->begsect & ~0x3f) << 2,
123                (uint16_t)ip->beghead, (uint16_t)ip->begsect & 0x3f);
124    mdb_snprintf(endchs, sizeof (endchs), "%hu/%hu/%hu",
125                (uint16_t)ip->endcyl | (uint16_t)(ip->endsect & ~0x3f) << 2,
126                (uint16_t)ip->endhead, (uint16_t)ip->endsect & 0x3f);

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128     mdb_printf("%-4llu %-21s %#-7x %-11s %-11s %-10u %-9u\n",
129               nr, typestr, ip->bootid, begchs, endchs, ip->relsect, ip->numsect);
130 }

132 static int
133 cmd_mbr(uintptr_t addr, uint_t flags, int argc, const mdb_arg_t *argv __unused)
134 {
135     struct mboot mbr;
136     mbr_type_t type = MBR_TYPE_UNKNOWN;

138     CTASSERT(sizeof(mbr) == SECTOR_SIZE);

140     if (argc != 0)
141         return (DCMD_USAGE);

143     if (!(flags & DCMD_ADDRSPEC))
144         addr = 0;

146     if (mdb_vread(&mbr, sizeof(mbr), addr) == -1) {
147         mdb_warn("failed to read MBR");
148         return (DCMD_ERR);
149     }

151     if (*((uint16_t *)&mbr.bootinst[GRUB_VERSION_OFF]) == GRUB_VERSION) {
152         type = MBR_TYPE_GRUB1;
153     } else if (mbr.bootinst[STAGE1_MBR_VERSION] == LOADER_VERSION) {
154         type = MBR_TYPE_LOADER;
155     } else if (mbr.bootinst[STAGE1_MBR_VERSION] == LOADER_JOYENT_VERSION) {
156         type = MBR_TYPE_LOADER_JOYENT;
157     }

159     switch (type) {
160     case MBR_TYPE_UNKNOWN:
161         mdb_printf("Format: unknown\n");
162         break;
163     case MBR_TYPE_GRUB1:
164         mdb_printf("Format: grub1\n");
165         break;
166     case MBR_TYPE_LOADER:
167         mdb_printf("Format: loader (illumos)\n");
168         break;
169     case MBR_TYPE_LOADER_JOYENT:
170         mdb_printf("Format: loader (joyent)\n");
171         break;
172     }

174     mdb_printf("Signature: 0x%hx (%s)\n", mbr.signature,
175               mbr.signature == MBB_MAGIC ? "valid" : "invalid");

177     mdb_printf("UniqueMBRDiskSignature: %#lx\n",
178               *(uint32_t *)&mbr.bootinst[STAGE1_SIG]);

180     if (type == MBR_TYPE_LOADER || type == MBR_TYPE_LOADER_JOYENT) {
181         char uuid[UUID_PRINTABLE_STRING_LENGTH];

183         mdb_printf("Loader STAGE1_STAGE2_LBA: %llu\n",
184                   *(uint64_t *)&mbr.bootinst[STAGE1_STAGE2_LBA]);

186         mdb_printf("Loader STAGE1_STAGE2_SIZE: %hu\n",
187                   *(uint16_t *)&mbr.bootinst[STAGE1_STAGE2_SIZE]);

189         uuid_unparse((uchar_t *)&mbr.bootinst[STAGE1_STAGE2_UUID],
190                     uuid);

192         mdb_printf("Loader STAGE1_STAGE2_UUID: %s\n", uuid);
193     }

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195     mdb_printf("\n<u>%-4s %-21s %-7s %-11s %-11s %-10s %-9s</u>\n",
196               "PART", "TYPE", "ACTIVE", "STARTCHS", "ENDCHS",
197               "SECTOR", "NUMSECT");

199     for (size_t i = 0; i < FD_NUMPART; i++) {
200         struct ipart *ip = (struct ipart *)
201             (mbr.parts + (sizeof(struct ipart) * i));
202         print_fdisk_part(ip, i);
203     }

205     return (DCMD_OK);
206 }

208 static unsigned int crc32_tab[] = { CRC32_TABLE };

210 static unsigned int
211 efi_crc32(const unsigned char *s, unsigned int len)
212 {
213     unsigned int crc32val;

215     CRC32(crc32val, s, len, -1U, crc32_tab);

217     return (crc32val ^ -1U);
218 }

220 typedef struct {
221     struct uuid eg_uuid;
222     const char *eg_name;
223 } efi_guid_t;

225 static efi_guid_t efi_guids[] = {
226     { EFI_UNUSED, "EFI_UNUSED" },
227     { EFI_RESV1, "EFI_RESV1" },
228     { EFI_BOOT, "EFI_BOOT" },
229     { EFI_ROOT, "EFI_ROOT" },
230     { EFI_SWAP, "EFI_SWAP" },
231     { EFI_USR, "EFI_USR" },
232     { EFI_BACKUP, "EFI_BACKUP" },
233     { EFI_RESV2, "EFI_RESV2" },
234     { EFI_VAR, "EFI_VAR" },
235     { EFI_HOME, "EFI_HOME" },
236     { EFI_ALTSCTR, "EFI_ALTSCTR" },
237     { EFI_RESERVED, "EFI_RESERVED" },
238     { EFI_SYSTEM, "EFI_SYSTEM" },
239     { EFI_LEGACY_MBR, "EFI_LEGACY_MBR" },
240     { EFI_SYMC_PUB, "EFI_SYMC_PUB" },
241     { EFI_SYMC_CDS, "EFI_SYMC_CDS" },
242     { EFI_MSFT_RESV, "EFI_MSFT_RESV" },
243     { EFI_DELL_BASIC, "EFI_DELL_BASIC" },
244     { EFI_DELL_RAID, "EFI_DELL_RAID" },
245     { EFI_DELL_SWAP, "EFI_DELL_SWAP" },
246     { EFI_DELL_LVM, "EFI_DELL_LVM" },
247     { EFI_DELL_RESV, "EFI_DELL_RESV" },
248     { EFI_AAPL_BOOT, "EFI_AAPL_BOOT" },
249     { EFI_AAPL_HFS, "EFI_AAPL_HFS" },
250     { EFI_AAPL_UFS, "EFI_AAPL_UFS" },
251     { EFI_AAPL_ZFS, "EFI_AAPL_ZFS" },
252     { EFI_AAPL_APPS, "EFI_AAPL_APPS" },
253     { EFI_FREEBSD_BOOT, "EFI_FREEBSD_BOOT" },
254     { EFI_FREEBSD_NANDFS, "EFI_FREEBSD_NANDFS" },
255     { EFI_FREEBSD_SWAP, "EFI_FREEBSD_SWAP" },
256     { EFI_FREEBSD_UFS, "EFI_FREEBSD_UFS" },
257     { EFI_FREEBSD_VINUM, "EFI_FREEBSD_VINUM" },
258     { EFI_FREEBSD_ZFS, "EFI_FREEBSD_ZFS" },
259     { EFI_BIOS_BOOT, "EFI_BIOS_BOOT" },

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260 };
262 static void
263 print_gpe(efi_gpe_t *gpe, size_t nr, int show_guid)
264 {
265     const char *type = "unknown";
267     for (size_t i = 0; i < ARRAY_SIZE(efi_guids); i++) {
268         if (memcmp((void *)&efi_guids[i].eg_uuid,
269                 (void *)&gpe->efi_gpe_PartitionTypeGUID,
270                 sizeof (efi_guids[i].eg_uuid)) == 0) {
271             type = efi_guids[i].eg_name;
272             break;
273         }
274     }
276     if (strcmp(type, "EFI_UNUSED") == 0) {
277         mdb_printf("%-4u %-19s\n", nr, type);
278         return;
279     }
281     if (show_guid) {
282         char guid[UUID_PRINTABLE_STRING_LENGTH];
284         uuid_unparse((uchar_t *)&gpe->efi_gpe_UniquePartitionGUID,
285                     guid);
287         mdb_printf("%-4u %-19s %s\n", nr, type, guid);
288     } else {
289         char name[EFI_PART_NAME_LEN + 1] = "";
291         /*
292          * Hopefully, ASCII is sufficient for any naming we care about.
293          */
294         for (size_t i = 0; i < sizeof (name); i++) {
295             ushort_t wchar = gpe->efi_gpe_PartitionName[i];
297             name[i] = (char)(isascii(wchar) ? wchar : '?');
298         }
300         mdb_printf("%-4u %-19s %-13llu %-13llu %#-8llx %s\n",
301                 nr, type, gpe->efi_gpe_StartingLBA, gpe->efi_gpe_EndingLBA,
302                 gpe->efi_gpe_Attributes, name);
303     }
304 }
306 static int
307 cmd_gpt(uintptr_t addr, uint_t flags, int argc, const mdb_arg_t *argv __unused)
308 {
309     char uuid[UUID_PRINTABLE_STRING_LENGTH];
310     int show_alternate = B_FALSE;
311     int show_guid = B_FALSE;
312     efi_gpt_t altheader;
313     size_t table_size;
314     efi_gpt_t header;
315     efi_gpe_t *gpet;
316     uint_t orig_crc;
317     uint_t crc;
319     if (mdb_getopts(argc, argv,
320         'a', MDB_OPT_SETBITS, TRUE, &show_alternate,
321         'g', MDB_OPT_SETBITS, TRUE, &show_guid,
322         NULL) != argc)
323         return (DCMD_USAGE);
325     /* Primary header is at LBA 1. */

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326     if (!(flags & DCMD_ADDRSPEC))
327         addr = SECTOR_SIZE;
329     if (mdb_vread(&header, sizeof (header), addr) == -1) {
330         mdb_warn("failed to read GPT header");
331         return (DCMD_ERR);
332     }
334     if (show_alternate) {
335         addr = header.efi_gpt_AlternateLBA * SECTOR_SIZE;
337         if (mdb_vread(&header, sizeof (header), addr) == -1) {
338             mdb_warn("failed to read GPT header");
339             return (DCMD_ERR);
340         }
341     }
343     mdb_printf("Signature: %s (%s)\n", (char *)&header.efi_gpt_Signature,
344             strcmp((char *)&header.efi_gpt_Signature, "EFI PART", 8) == 0 ?
345             "valid" : "invalid");
347     mdb_printf("Revision: %hu.%hu\n", header.efi_gpt_Revision >> 16,
348             header.efi_gpt_Revision);
350     mdb_printf("HeaderSize: %u bytes\n", header.efi_gpt_HeaderSize);
352     if (header.efi_gpt_HeaderSize > SECTOR_SIZE) {
353         mdb_warn("invalid header size: skipping CRC\n");
354     } else {
355         orig_crc = header.efi_gpt_HeaderCRC32;
357         header.efi_gpt_HeaderCRC32 = 0;
359         crc = efi_crc32((unsigned char *)&header,
360                 header.efi_gpt_HeaderSize);
362         mdb_printf("HeaderCRC32: %#x (should be %#x)\n", orig_crc, crc);
363     }
365     mdb_printf("Reserved1: %#x (should be 0x0)\n",
366             header.efi_gpt_Reserved1);
368     mdb_printf("MyLBA: %llu (should be %llu)\n",
369             header.efi_gpt_MyLBA, addr / SECTOR_SIZE);
371     mdb_printf("AlternateLBA: %llu\n", header.efi_gpt_AlternateLBA);
372     mdb_printf("FirstUsableLBA: %llu\n", header.efi_gpt_FirstUsableLBA);
373     mdb_printf("LastUsableLBA: %llu\n", header.efi_gpt_LastUsableLBA);
375     if (header.efi_gpt_MyLBA >= header.efi_gpt_FirstUsableLBA &&
376         header.efi_gpt_MyLBA <= header.efi_gpt_LastUsableLBA) {
377         mdb_warn("MyLBA is within usable LBA range\n");
378     }
380     if (header.efi_gpt_AlternateLBA >= header.efi_gpt_FirstUsableLBA &&
381         header.efi_gpt_AlternateLBA <= header.efi_gpt_LastUsableLBA) {
382         mdb_warn("AlternateLBA is within usable LBA range\n");
383     }
385     if (mdb_vread(&altheader, sizeof (altheader),
386                 header.efi_gpt_AlternateLBA * SECTOR_SIZE) == -1) {
387         mdb_warn("failed to read alternate GPT header");
388     } else {
389         if (strcmp((char *)&altheader.efi_gpt_Signature,
390                 "EFI PART", 8) != 0) {
391             mdb_warn("found invalid alternate GPT header with "

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392         "Signature: %s\n",
393         (char *)&altheader.efi_gpt_Signature);
394     }
395
396     if (altheader.efi_gpt_MyLBA != header.efi_gpt_AlternateLBA) {
397         mdb_warn("alternate GPT header at offset %#llx has "
398             "invalid MyLBA %llu\n",
399             header.efi_gpt_AlternateLBA * SECTOR_SIZE,
400             altheader.efi_gpt_MyLBA);
401     }
402
403     if (altheader.efi_gpt_AlternateLBA != header.efi_gpt_MyLBA) {
404         mdb_warn("alternate GPT header at offset %#llx has "
405             "invalid AlternateLBA %llu\n",
406             header.efi_gpt_AlternateLBA * SECTOR_SIZE,
407             altheader.efi_gpt_AlternateLBA);
408     }
409
410     /*
411     * We could go ahead and verify all the alternate checksums,
412     * etc. here too...
413     */
414 }
415
416 uuid_unparse((uchar_t *)&header.efi_gpt_DiskGUID, uuid);
417 mdb_printf("DiskGUID: %s\n", uuid);
418
419 mdb_printf("PartitionEntryLBA: %llu\n",
420     header.efi_gpt_PartitionEntryLBA);
421
422 mdb_printf("NumberOfPartitionEntries: %u\n",
423     header.efi_gpt_NumberOfPartitionEntries);
424
425 /*
426 * While the spec allows a different size, in practice the table
427 * is always packed.
428 */
429 if (header.efi_gpt_SizeOfPartitionEntry != sizeof (efi_gpe_t)) {
430     mdb_warn("SizeOfPartitionEntry: %#x bytes "
431         "(expected %#x bytes)\n",
432         header.efi_gpt_SizeOfPartitionEntry, sizeof (efi_gpe_t));
433     return (DCMD_ERR);
434 }
435
436 mdb_printf("SizeOfPartitionEntry: %#x bytes\n",
437     header.efi_gpt_SizeOfPartitionEntry);
438
439 table_size = header.efi_gpt_SizeOfPartitionEntry *
440     header.efi_gpt_NumberOfPartitionEntries;
441
442 /*
443 * While this is a minimum reservation, it serves us ably as a
444 * maximum value to reasonably expect.
445 */
446 if (table_size > EFI_MIN_ARRAY_SIZE) {
447     mdb_warn("Skipping GPT array of %#lx bytes.\n", table_size);
448     return (DCMD_ERR);
449 }
450
451 gpet = mdb_alloc(header.efi_gpt_SizeOfPartitionEntry *
452     header.efi_gpt_NumberOfPartitionEntries, UM_SLEEP | UM_GC);
453
454 if (mdb_vread(gpet, table_size,
455     header.efi_gpt_PartitionEntryLBA * SECTOR_SIZE) == -1) {
456     mdb_warn("couldn't read GPT array");
457     return (DCMD_ERR);

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458     }
459
460     crc = efi_crc32((unsigned char *)gpet, table_size);
461
462     mdb_printf("PartitionEntryArrayCRC32: %#x (should be %#x)\n",
463         header.efi_gpt_PartitionEntryArrayCRC32, crc);
464
465     if (show_guid) {
466         mdb_printf("\n%<u>%-4s %-19s %-37s%</u>\n",
467             "PART", "TYPE", "GUID");
468     } else {
469         mdb_printf("\n%<u>%-4s %-19s %-13s %-13s %-8s %s%</u>\n",
470             "PART", "TYPE", "STARTLBA", "ENDLBA", "ATTR", "NAME");
471     }
472
473     for (size_t i = 0; i < header.efi_gpt_NumberOfPartitionEntries; i++)
474         print_gpe(&gpet[i], i, show_guid);
475
476     return (DCMD_OK);
477 }
478
479 void
480 gpt_help(void)
481 {
482     mdb_printf("Display an EFI GUID Partition Table.\n\n"
483         "-a Display the alternate GPT\n"
484         "-g Show unique GUID for each table entry\n");
485 }
486
487 static const mdb_dcmt_t dcmts[] = {
488     { "mbr", NULL, "dump Master Boot Record information", cmd_mbr },
489     { "gpt", "?[-ag]", "dump an EFI GPT", cmd_gpt, gpt_help },
490     { NULL }
491 };
492
493 static const mdb_modinfo_t modinfo = {
494     MDB_API_VERSION, dcmts, NULL
495 };
496
497 const mdb_modinfo_t *
498 _mdb_init(void)
499 {
500     return (&modinfo);
501 }

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new/usr/src/cmd/mdb/intel/amd64/Makefile

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new/usr/src/cmd/mdb/intel/amd64/Makefile

10569 MDB module for disk labelling would be useful

```
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 2010 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 # Copyright 2019 Joyent, Inc.
25 #

27 include ../../Makefile.common

29 MODULES = $(COMMON_MODULES_PROC) $(COMMON_MODULES_KVM)
30 MODULES += disk_label uhci
28 MODULES = $(COMMON_MODULES_PROC) $(COMMON_MODULES_KVM) uhci

32 SUBDIRS = mdb mdb_ks kmdb libstandctf libstand .WAIT $(MODULES)

34 include ../../Makefile.subdirs

36 .PARALLEL: $(SUBDIRS)

38 # inter-module dependencies
39 kmdb: libstand libstandctf mdb_ks
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new/usr/src/cmd/mdb/intel/amd64/disk_label/Makefile

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```
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 (c) 2019, Joyent, Inc.
12 #
13
14 MODULE = disk_label.so
15 MDBTGT = raw
16
17 MODSRCS = disk_label.c
18
19 include ../../../../Makefile.cmd
20 include ../../../../Makefile.cmd.64
21 include ../../Makefile.amd64
22 include ../../Makefile.module
23
24 MODSRCS_DIR = ../../../../common/modules/disk_label
25
26 CPPFLAGS += -I$(SRC)/uts/common -I$(SRC)/cmd/boot/installboot/i386
27
28 LDLIBS += -luuid
```

new/usr/src/cmd/mdb/intel/ia32/Makefile

1

1140 Tue Apr 16 05:25:30 2019

new/usr/src/cmd/mdb/intel/ia32/Makefile

10569 MDB module for disk labelling would be useful

```
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 2010 Sun Microsystems, Inc. All rights reserved.
23 # Use is subject to license terms.
24 #
25 # Copyright (c) 2019, Joyent, Inc.
26 #

28 include ../../Makefile.common

30 MODULES = $(COMMON_MODULES_PROC) $(COMMON_MODULES_PROC_32BIT)
31 MODULES += disk_label

33 SUBDIRS = mdb .WAIT $(MODULES)

35 include ../../Makefile.subdirs

37 .PARALLEL: $(SUBDIRS)
```

new/usr/src/cmd/mdb/intel/ia32/disk_label/Makefile

1

731 Tue Apr 16 05:25:30 2019

new/usr/src/cmd/mdb/intel/ia32/disk_label/Makefile

10569 MDB module for disk labelling would be useful

```
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 (c) 2019, Joyent, Inc.
12 #
13
14 MODULE = disk_label.so
15 MDBTGT = raw
16
17 MODSRCS = disk_label.c
18
19 include ../../../../Makefile.cmd
20 include ../../../../Makefile.ia32
21 include ../../../../Makefile.module
22
23 MODSRCS_DIR = ../../../../common/modules/disk_label
24
25 CPPFLAGS += -I$(SRC)/uts/common -I$(SRC)/cmd/boot/installboot/i386
26
27 LDLIBS += -luuid
```



```

*****
15825 Tue Apr 16 05:25:30 2019
new/usr/src/pkg/manifests/developer-debug-mdb.mf
10569 MDB module for disk labelling would be useful
*****
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 (c) 2019, Joyent, Inc.
25 #
26 #
27 set name=pkg.fmri value=pkg:/developer/debug/mdb@$(PKGVERS)
28 set name=pkg.description value="Modular Debugger (MDB)"
29 set name=pkg.summary value="Modular Debugger"
30 set name=info.classification \
31     value=org.opensolaris.category.2008:Development/System
32 set name=variant.arch value=$(ARCH)
33 dir path=kernel group=sys
34 dir path=kernel/kmdb group=sys
35 dir path=kernel/kmdb/$(ARCH64) group=sys
36 dir path=platform group=sys variant.opensolaris.zone=global
37 $(i386_ONLY)dir path=platform/i86pc group=sys variant.opensolaris.zone=global
38 $(i386_ONLY)dir path=platform/i86pc/kernel group=sys \
39     variant.opensolaris.zone=global
40 $(i386_ONLY)dir path=platform/i86pc/kernel/kmdb group=sys
41 $(i386_ONLY)dir path=platform/i86pc/kernel/kmdb/$(ARCH64) group=sys
42 $(i386_ONLY)dir path=platform/i86xpv group=sys variant.opensolaris.zone=global
43 $(i386_ONLY)dir path=platform/i86xpv/kernel group=sys \
44     variant.opensolaris.zone=global
45 $(i386_ONLY)dir path=platform/i86xpv/kernel/kmdb group=sys
46 $(i386_ONLY)dir path=platform/i86xpv/kernel/kmdb/$(ARCH64) group=sys
47 $(sparc_ONLY)dir path=platform/sun4u group=sys variant.opensolaris.zone=global
48 $(sparc_ONLY)dir path=platform/sun4u/kernel group=sys \
49     variant.opensolaris.zone=global
50 $(sparc_ONLY)dir path=platform/sun4u/kernel/kmdb group=sys
51 $(sparc_ONLY)dir path=platform/sun4u/kernel/kmdb/$(ARCH64) group=sys
52 $(sparc_ONLY)dir path=platform/sun4v group=sys variant.opensolaris.zone=global
53 $(sparc_ONLY)dir path=platform/sun4v/kernel group=sys \
54     variant.opensolaris.zone=global
55 $(sparc_ONLY)dir path=platform/sun4v/kernel/kmdb group=sys
56 $(sparc_ONLY)dir path=platform/sun4v/kernel/kmdb/$(ARCH64) group=sys
57 dir path=usr group=sys
58 dir path=usr/bin
59 dir path=usr/bin/$(ARCH32)
60 dir path=usr/bin/$(ARCH64)
61 dir path=usr/include

```

```

62 dir path=usr/include/sys
63 dir path=usr/lib
64 dir path=usr/lib/mdb group=sys
65 dir path=usr/lib/mdb/kvm group=sys
66 dir path=usr/lib/mdb/kvm/$(ARCH64) group=sys
67 dir path=usr/lib/mdb/proc group=sys
68 $(sparc_ONLY)dir path=usr/lib/mdb/proc/$(ARCH64) group=sys
69 $(i386_ONLY)dir path=usr/lib/mdb/proc/$(ARCH64)
70 dir path=usr/lib/mdb/raw group=sys
71 dir path=usr/lib/mdb/raw/$(ARCH64) group=sys
72 dir path=usr/platform group=sys
73 $(i386_ONLY)dir path=usr/platform/i86pc group=sys
74 $(i386_ONLY)dir path=usr/platform/i86pc/lib
75 $(i386_ONLY)dir path=usr/platform/i86pc/lib/mdb group=sys
76 $(i386_ONLY)dir path=usr/platform/i86pc/lib/mdb/kvm group=sys
77 $(i386_ONLY)dir path=usr/platform/i86pc/lib/mdb/kvm/$(ARCH64) group=sys
78 $(i386_ONLY)dir path=usr/platform/i86xpv group=sys
79 $(i386_ONLY)dir path=usr/platform/i86xpv/lib
80 $(i386_ONLY)dir path=usr/platform/i86xpv/lib/mdb group=sys
81 $(i386_ONLY)dir path=usr/platform/i86xpv/lib/mdb/kvm group=sys
82 $(i386_ONLY)dir path=usr/platform/i86xpv/lib/mdb/kvm/$(ARCH64) group=sys
83 $(sparc_ONLY)dir path=usr/platform/sun4u group=sys
84 $(sparc_ONLY)dir path=usr/platform/sun4u/lib
85 $(sparc_ONLY)dir path=usr/platform/sun4u/lib/mdb group=sys
86 $(sparc_ONLY)dir path=usr/platform/sun4u/lib/mdb/kvm group=sys
87 $(sparc_ONLY)dir path=usr/platform/sun4u/lib/mdb/kvm/$(ARCH64) group=sys
88 $(sparc_ONLY)dir path=usr/platform/sun4v group=sys
89 $(sparc_ONLY)dir path=usr/platform/sun4v/lib
90 $(sparc_ONLY)dir path=usr/platform/sun4v/lib/mdb group=sys
91 $(sparc_ONLY)dir path=usr/platform/sun4v/lib/mdb/kvm group=sys
92 $(sparc_ONLY)dir path=usr/platform/sun4v/lib/mdb/kvm/$(ARCH64) group=sys
93 dir path=usr/share/man
94 dir path=usr/share/man/man1
95 file path=kernel/kmdb/$(ARCH64)/arp group=sys mode=0555
96 file path=kernel/kmdb/$(ARCH64)/cpc group=sys mode=0555
97 $(i386_ONLY)file path=kernel/kmdb/$(ARCH64)/cpu.generic group=sys mode=0555
98 $(i386_ONLY)file path=kernel/kmdb/$(ARCH64)/cpu_ms.AuthenticAMD.15 group=sys \
99     mode=0555
100 file path=kernel/kmdb/$(ARCH64)/crypto group=sys mode=0555
101 file path=kernel/kmdb/$(ARCH64)/genunix group=sys mode=0555
102 file path=kernel/kmdb/$(ARCH64)/hook group=sys mode=0555
103 $(i386_ONLY)file path=kernel/kmdb/$(ARCH64)/i40e group=sys mode=0555
104 $(sparc_ONLY)file path=kernel/kmdb/$(ARCH64)/intr group=sys mode=0555
105 file path=kernel/kmdb/$(ARCH64)/ip group=sys mode=0555
106 file path=kernel/kmdb/$(ARCH64)/ipc group=sys mode=0555
107 file path=kernel/kmdb/$(ARCH64)/ipp group=sys mode=0555
108 file path=kernel/kmdb/$(ARCH64)/krtld group=sys mode=0555
109 file path=kernel/kmdb/$(ARCH64)/lofs group=sys mode=0555
110 file path=kernel/kmdb/$(ARCH64)/logindmux group=sys mode=0555
111 file path=kernel/kmdb/$(ARCH64)/mac group=sys mode=0555
112 file path=kernel/kmdb/$(ARCH64)/mdb_ds group=sys mode=0555
113 file path=kernel/kmdb/$(ARCH64)/mm group=sys mode=0555
114 file path=kernel/kmdb/$(ARCH64)/mpt group=sys mode=0555
115 file path=kernel/kmdb/$(ARCH64)/mpt_sas group=sys mode=0555
116 file path=kernel/kmdb/$(ARCH64)/mr_sas group=sys mode=0555
117 file path=kernel/kmdb/$(ARCH64)/nca group=sys mode=0555
118 file path=kernel/kmdb/$(ARCH64)/neti group=sys mode=0555
119 file path=kernel/kmdb/$(ARCH64)/nfs group=sys mode=0555
120 file path=kernel/kmdb/$(ARCH64)/ptm group=sys mode=0555
121 file path=kernel/kmdb/$(ARCH64)/random group=sys mode=0555
122 file path=kernel/kmdb/$(ARCH64)/s1394 group=sys mode=0555
123 $(i386_ONLY)file path=kernel/kmdb/$(ARCH64)/sata group=sys mode=0555
124 file path=kernel/kmdb/$(ARCH64)/scsi_vhci group=sys mode=0555
125 file path=kernel/kmdb/$(ARCH64)/sctp group=sys mode=0555
126 file path=kernel/kmdb/$(ARCH64)/sd group=sys mode=0555
127 file path=kernel/kmdb/$(ARCH64)/sockfs group=sys mode=0555

```

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128 file path=kernel/kmdb/$(ARCH64)/specfs group=sys mode=0555
129 file path=kernel/kmdb/$(ARCH64)/sppp group=sys mode=0555
130 $(sparc_ONLY)file path=kernel/kmdb/$(ARCH64)/ssd group=sys mode=0555
131 file path=kernel/kmdb/$(ARCH64)/ufs group=sys mode=0555
132 $(i386_ONLY)file path=kernel/kmdb/$(ARCH64)/uhci group=sys mode=0555
133 file path=kernel/kmdb/$(ARCH64)/usba group=sys mode=0555
134 $(i386_ONLY)file path=platform/i86pc/kernel/kmdb/$(ARCH64)/apix group=sys \
135 mode=0555
136 $(i386_ONLY)file path=platform/i86pc/kernel/kmdb/$(ARCH64)/pcplusmp group=sys \
137 mode=0555
138 $(i386_ONLY)file path=platform/i86pc/kernel/kmdb/$(ARCH64)/unix group=sys \
139 mode=0555
140 $(i386_ONLY)file path=platform/i86pc/kernel/kmdb/$(ARCH64)/uppc group=sys \
141 mode=0555
142 $(i386_ONLY)file path=platform/i86xpv/kernel/kmdb/$(ARCH64)/unix group=sys \
143 mode=0555
144 $(i386_ONLY)file path=platform/i86xpv/kernel/kmdb/$(ARCH64)/xpv_psm group=sys \
145 mode=0555
146 $(i386_ONLY)file path=platform/i86xpv/kernel/kmdb/$(ARCH64)/xpv_uppc group=sys \
147 mode=0555
148 $(sparc_ONLY)file path=platform/sun4u/kernel/kmdb/$(ARCH64)/oplhwd group=sys \
149 mode=0555
150 $(sparc_ONLY)file path=platform/sun4u/kernel/kmdb/$(ARCH64)/sgenv group=sys \
151 mode=0555
152 $(sparc_ONLY)file path=platform/sun4u/kernel/kmdb/$(ARCH64)/sgsbcc group=sys \
153 mode=0555
154 $(sparc_ONLY)file path=platform/sun4u/kernel/kmdb/$(ARCH64)/unix group=sys \
155 mode=0555
156 $(sparc_ONLY)file path=platform/sun4v/kernel/kmdb/$(ARCH64)/errh group=sys \
157 mode=0555
158 $(sparc_ONLY)file path=platform/sun4v/kernel/kmdb/$(ARCH64)/ldc group=sys \
159 mode=0555
160 $(sparc_ONLY)file path=platform/sun4v/kernel/kmdb/$(ARCH64)/mdesc group=sys \
161 mode=0555
162 $(sparc_ONLY)file path=platform/sun4v/kernel/kmdb/$(ARCH64)/unix group=sys \
163 mode=0555
164 $(sparc_ONLY)file path=platform/sun4v/kernel/kmdb/$(ARCH64)/vdsk group=sys \
165 mode=0555
166 file path=usr/bin/$(ARCH32)/mdb mode=0555
167 file path=usr/bin/$(ARCH64)/mdb mode=0555
168 file path=usr/include/sys/mdb_modapi.h
169 file path=usr/lib/mdb/kvm/$(ARCH64)/arp.so group=sys mode=0555
170 file path=usr/lib/mdb/kvm/$(ARCH64)/cpc.so group=sys mode=0555
171 $(i386_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/cpu.generic.so group=sys \
172 mode=0555
173 $(i386_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/cpu_ms.AuthenticAMD.15.so \
174 group=sys mode=0555
175 file path=usr/lib/mdb/kvm/$(ARCH64)/crypto.so group=sys mode=0555
176 file path=usr/lib/mdb/kvm/$(ARCH64)/genunix.so group=sys mode=0555
177 file path=usr/lib/mdb/kvm/$(ARCH64)/hook.so group=sys mode=0555
178 $(i386_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/i40e.so group=sys mode=0555
179 $(sparc_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/intr.so group=sys mode=0555
180 file path=usr/lib/mdb/kvm/$(ARCH64)/ip.so group=sys mode=0555
181 file path=usr/lib/mdb/kvm/$(ARCH64)/ipc.so group=sys mode=0555
182 file path=usr/lib/mdb/kvm/$(ARCH64)/ipp.so group=sys mode=0555
183 file path=usr/lib/mdb/kvm/$(ARCH64)/krtld.so group=sys mode=0555
184 file path=usr/lib/mdb/kvm/$(ARCH64)/lofs.so group=sys mode=0555
185 file path=usr/lib/mdb/kvm/$(ARCH64)/logindmux.so group=sys mode=0555
186 file path=usr/lib/mdb/kvm/$(ARCH64)/mac.so group=sys mode=0555
187 $(i386_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/mdb_kb.so group=sys mode=0555
188 file path=usr/lib/mdb/kvm/$(ARCH64)/mdb_ks.so group=sys mode=0555
189 file path=usr/lib/mdb/kvm/$(ARCH64)/mm.so group=sys mode=0555
190 file path=usr/lib/mdb/kvm/$(ARCH64)/mpt.so group=sys mode=0555
191 file path=usr/lib/mdb/kvm/$(ARCH64)/mpt_sas.so group=sys mode=0555
192 file path=usr/lib/mdb/kvm/$(ARCH64)/mr_sas.so group=sys mode=0555
193 file path=usr/lib/mdb/kvm/$(ARCH64)/nca.so group=sys mode=0555

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194 file path=usr/lib/mdb/kvm/$(ARCH64)/neti.so group=sys mode=0555
195 file path=usr/lib/mdb/kvm/$(ARCH64)/nfs.so group=sys mode=0555
196 file path=usr/lib/mdb/kvm/$(ARCH64)/ptm.so group=sys mode=0555
197 file path=usr/lib/mdb/kvm/$(ARCH64)/random.so group=sys mode=0555
198 file path=usr/lib/mdb/kvm/$(ARCH64)/s1394.so group=sys mode=0555
199 $(i386_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/sata.so group=sys mode=0555
200 file path=usr/lib/mdb/kvm/$(ARCH64)/scsi_vhci.so group=sys mode=0555
201 file path=usr/lib/mdb/kvm/$(ARCH64)/sctp.so group=sys mode=0555
202 file path=usr/lib/mdb/kvm/$(ARCH64)/sd.so group=sys mode=0555
203 file path=usr/lib/mdb/kvm/$(ARCH64)/sockfs.so group=sys mode=0555
204 file path=usr/lib/mdb/kvm/$(ARCH64)/specfs.so group=sys mode=0555
205 file path=usr/lib/mdb/kvm/$(ARCH64)/sppp.so group=sys mode=0555
206 $(sparc_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/ssd.so group=sys mode=0555
207 file path=usr/lib/mdb/kvm/$(ARCH64)/ufs.so group=sys mode=0555
208 $(i386_ONLY)file path=usr/lib/mdb/kvm/$(ARCH64)/uhci.so group=sys mode=0555
209 file path=usr/lib/mdb/kvm/$(ARCH64)/usba.so group=sys mode=0555
210 file path=usr/lib/mdb/proc/$(ARCH64)/ld.so group=sys mode=0555
211 file path=usr/lib/mdb/proc/$(ARCH64)/libavl.so group=sys mode=0555
212 file path=usr/lib/mdb/proc/$(ARCH64)/libc.so group=sys mode=0555
213 file path=usr/lib/mdb/proc/$(ARCH64)/libcmdutils.so group=sys mode=0555
214 file path=usr/lib/mdb/proc/$(ARCH64)/libnvpair.so group=sys mode=0555
215 file path=usr/lib/mdb/proc/$(ARCH64)/libproc.so group=sys mode=0555
216 file path=usr/lib/mdb/proc/$(ARCH64)/libpython$(PYTHON_VERSION).so group=sys \
217 mode=0555
218 file path=usr/lib/mdb/proc/$(ARCH64)/libsysevent.so group=sys mode=0555
219 file path=usr/lib/mdb/proc/$(ARCH64)/libtopo.so group=sys mode=0555
220 file path=usr/lib/mdb/proc/$(ARCH64)/libumem.so group=sys mode=0555
221 file path=usr/lib/mdb/proc/$(ARCH64)/libutil.so group=sys mode=0555
222 file path=usr/lib/mdb/proc/$(ARCH64)/mdb_ds.so group=sys mode=0555
223 $(i386_ONLY)file path=usr/lib/mdb/proc/$(ARCH64)/mdb_test.so group=sys \
224 mode=0555
225 file path=usr/lib/mdb/proc/ld.so group=sys mode=0555
226 file path=usr/lib/mdb/proc/libavl.so group=sys mode=0555
227 file path=usr/lib/mdb/proc/libc.so group=sys mode=0555
228 file path=usr/lib/mdb/proc/libcmdutils.so group=sys mode=0555
229 file path=usr/lib/mdb/proc/libnvpair.so group=sys mode=0555
230 file path=usr/lib/mdb/proc/libproc.so group=sys mode=0555
231 file path=usr/lib/mdb/proc/libpython$(PYTHON_VERSION).so group=sys mode=0555
232 file path=usr/lib/mdb/proc/libsysevent.so group=sys mode=0555
233 file path=usr/lib/mdb/proc/libtopo.so group=sys mode=0555
234 file path=usr/lib/mdb/proc/libumem.so group=sys mode=0555
235 file path=usr/lib/mdb/proc/libutil.so group=sys mode=0555
236 file path=usr/lib/mdb/proc/mdb_ds.so group=sys mode=0555
237 file path=usr/lib/mdb/proc/svc.configd.so group=sys mode=0555
238 file path=usr/lib/mdb/proc/svc.startd.so group=sys mode=0555
239 file path=usr/lib/mdb/raw/$(ARCH64)/disk_label.so group=sys mode=0555
240 file path=usr/lib/mdb/raw/disk_label.so group=sys mode=0555
241 $(i386_ONLY)file path=usr/platform/i86pc/lib/mdb/kvm/$(ARCH64)/apix.so \
242 group=sys mode=0555
243 $(i386_ONLY)file path=usr/platform/i86pc/lib/mdb/kvm/$(ARCH64)/pcplusmp.so \
244 group=sys mode=0555
245 $(i386_ONLY)file path=usr/platform/i86pc/lib/mdb/kvm/$(ARCH64)/unix.so \
246 group=sys mode=0555
247 $(i386_ONLY)file path=usr/platform/i86pc/lib/mdb/kvm/$(ARCH64)/uppc.so \
248 group=sys mode=0555
249 $(i386_ONLY)file path=usr/platform/i86xpv/lib/mdb/kvm/$(ARCH64)/unix.so \
250 group=sys mode=0555
251 $(i386_ONLY)file path=usr/platform/i86xpv/lib/mdb/kvm/$(ARCH64)/xpv.so \
252 group=sys mode=0555
253 $(i386_ONLY)file path=usr/platform/i86xpv/lib/mdb/kvm/$(ARCH64)/xpv_psm.so \
254 group=sys mode=0555
255 $(i386_ONLY)file path=usr/platform/i86xpv/lib/mdb/kvm/$(ARCH64)/xpv_uppc.so \
256 group=sys mode=0555
257 $(sparc_ONLY)file path=usr/platform/sun4u/lib/mdb/kvm/$(ARCH64)/oplhwd.so \
258 group=sys mode=0555
259 $(sparc_ONLY)file path=usr/platform/sun4u/lib/mdb/kvm/$(ARCH64)/sgenv.so \

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```
260     group=sys mode=0555
261 $(sparc_ONLY)file path=usr/platform/sun4u/lib/mdb/kvm/$(ARCH64)/sgsbcc.so \
262     group=sys mode=0555
263 $(sparc_ONLY)file path=usr/platform/sun4u/lib/mdb/kvm/$(ARCH64)/unix.so \
264     group=sys mode=0555
265 $(sparc_ONLY)file path=usr/platform/sun4v/lib/mdb/kvm/$(ARCH64)/errh.so \
266     group=sys mode=0555
267 $(sparc_ONLY)file path=usr/platform/sun4v/lib/mdb/kvm/$(ARCH64)/ldc.so \
268     group=sys mode=0555
269 $(sparc_ONLY)file path=usr/platform/sun4v/lib/mdb/kvm/$(ARCH64)/mdesc.so \
270     group=sys mode=0555
271 $(sparc_ONLY)file path=usr/platform/sun4v/lib/mdb/kvm/$(ARCH64)/unix.so \
272     group=sys mode=0555
273 $(sparc_ONLY)file path=usr/platform/sun4v/lib/mdb/kvm/$(ARCH64)/vdsks.so \
274     group=sys mode=0555
275 file path=usr/share/man/man1/adb.1
276 file path=usr/share/man/man1/kmdb.1
277 file path=usr/share/man/man1/mdb.1
278 hardlink path=usr/bin/$(ARCH32)/adb target=../../../../usr/bin/$(ARCH32)/mdb
279 hardlink path=usr/bin/$(ARCH64)/adb target=../../../../usr/bin/$(ARCH64)/mdb
280 hardlink path=usr/bin/adb target=../../usr/lib/isaexec
281 hardlink path=usr/bin/mdb target=../../usr/lib/isaexec
282 legacy pkg=SUNWmdb desc="Modular Debugger (MDB)" name="Modular Debugger"
283 legacy pkg=SUNWmdbr desc="Modular Debugger (MDB) (Root)" \
284     name="Modular Debugger (Root)"
285 license cr_Sun license=cr_Sun
286 license lic_CDDL license=lic_CDDL
287 license usr/src/common/bzip2/LICENSE license=usr/src/common/bzip2/LICENSE
288 license usr/src/uts/common/io/mr_sas/THIRDPARTYLICENSE \
289     license=usr/src/uts/common/io/mr_sas/THIRDPARTYLICENSE
290 license usr/src/uts/common/zmod/THIRDPARTYLICENSE \
291     license=usr/src/uts/common/zmod/THIRDPARTYLICENSE
292 $(sparc_ONLY)link path=kernel/kmdb/$(ARCH64)/niux target=intr
293 $(sparc_ONLY)link path=kernel/kmdb/$(ARCH64)/pcipsy target=intr
294 $(sparc_ONLY)link path=kernel/kmdb/$(ARCH64)/pcisch target=intr
295 $(sparc_ONLY)link path=kernel/kmdb/$(ARCH64)/px target=intr
296 $(sparc_ONLY)link path=usr/lib/mdb/kvm/$(ARCH64)/niux.so target=intr.so
297 $(sparc_ONLY)link path=usr/lib/mdb/kvm/$(ARCH64)/pcipsy.so target=intr.so
298 $(sparc_ONLY)link path=usr/lib/mdb/kvm/$(ARCH64)/pcisch.so target=intr.so
299 $(sparc_ONLY)link path=usr/lib/mdb/kvm/$(ARCH64)/px.so target=intr.so
```