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*****
65298 Fri Nov 18 16:39:48 2016
new/usr/src/cmd/sgs/libld/common/args.c
7594 ld -zaslr should accept Solaris-compatible values
*****
_____ unchanged_portion_omitted_


965 static int      opttitle = 0;
966 /*
967  * Parsing options pass1 for process_flags().
968 */
969 static uintptr_t
970 parseopt_pass1(ofl_desc *ofl, int argc, char **argv, int *usage)
971 {
972     int      c, ndx = optind;

974     /*
975      * The -32, -64 and -ztarget options are special, in that we validate
976      * them, but otherwise ignore them. libld.so (this code) is called
977      * from the ld front end program. ld has already examined the
978      * arguments to determine the output class and machine type of the
979      * output object, as reflected in the version (32/64) of ld_main()
980      * that was called and the value of the 'mach' argument passed.
981      * By time execution reaches this point, these options have already
982      * been seen and acted on.
983      */
984     while ((c = ld_getopt(ofl->ofl_lml, ndx, argc, argv)) != -1) {

986         switch (c) {
987             case '3':
988                 DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
989
990                 /*
991                  * -32 is processed by ld to determine the output class.
992                  * Here we sanity check the option incase some other
993                  * -3* option is mistakenly passed to us.
994                  */
995                 if (optarg[0] != '2')
996                     ld_eprintf(ofl, ERR_FATAL,
997                               MSG_INTL(MSG_ARG_ILLEGAL),
998                               MSG_ORIG(MSG_ARG_3), optarg);
999                 continue;

1001            case '6':
1002                DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1003
1004                /*
1005                  * -64 is processed by ld to determine the output class.
1006                  * Here we sanity check the option incase some other
1007                  * -6* option is mistakenly passed to us.
1008                  */
1009                 if (optarg[0] != '4')
1010                     ld_eprintf(ofl, ERR_FATAL,
1011                               MSG_INTL(MSG_ARG_ILLEGAL),
1012                               MSG_ORIG(MSG_ARG_6), optarg);
1013                 continue;

1015            case 'a':
1016                DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1017                aflag = TRUE;
1018                break;

1020            case 'b':
1021                DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1022                bflag = TRUE;

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1090
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1092
1093     } else {
1094         if ((ofl->ofl_filtees =
1095             add_string(ofl->ofl_filtees, optarg)) ==
1096             (const char *)S_ERROR)
1097             return (S_ERROR);
1098         ofl->ofl_flags |= FLG_OF_AUX;
1099     }
1100     break;
1101
1102 case 'F':
1103     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1104     if (ofl->ofl_filtees &&
1105         (ofl->ofl_flags & FLG_OF_AUX)) {
1106         ld_eprintf(ofl, ERR_FATAL,
1107                 MSG_INTL(MSG_MARG_INCOMP),
1108                 MSG_INTL(MSG_MARG_FILTER),
1109                 MSG_INTL(MSG_MARG_FILTER_AUX));
1110     } else {
1111         if ((ofl->ofl_filtees =
1112             add_string(ofl->ofl_filtees, optarg)) ==
1113             (const char *)S_ERROR)
1114             return (S_ERROR);
1115     }
1116     break;
1117
1118 case 'h':
1119     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1120     if (ofl->ofl_soname)
1121         ld_eprintf(ofl, ERR_WARNING_NF,
1122                 MSG_INTL(MSG_MARG_MTONCE),
1123                 MSG_INTL(MSG_MARG SONAME));
1124     else
1125         ofl->ofl_soname = (const char *)optarg;
1126     break;
1127
1128 case 'i':
1129     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1130     ofl->ofl_flags |= FLG_OF_IGNENV;
1131     break;
1132
1133 case 'I':
1134     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1135     if (ofl->ofl_interp)
1136         ld_eprintf(ofl, ERR_WARNING_NF,
1137                 MSG_INTL(MSG_ARG_MTONCE),
1138                 MSG_ORIG(MSG_ARG_CI));
1139     else
1140         ofl->ofl_interp = (const char *)optarg;
1141     break;
1142
1143 case 'l':
1144     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1145     /*
1146      * For now, count any library as a shared object. This
1147      * is used to size the internal symbol cache. This
1148      * value is recalculated later on actual file processing
1149      * to get an accurate shared object count.
1150     */
1151     ofl->ofl_soscnt++;
1152     break;
1153
1154 case 'm':
1155     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));

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1156
1157     ofl->ofl_flags |= FLG_OF_GENMAP;
1158     break;
1159
1160 case 'o':
1161     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1162     if (ofl->ofl_name)
1163         ld_eprintf(ofl, ERR_WARNING_NF,
1164                 MSG_INTL(MSG_MARG_MTONCE),
1165                 MSG_INTL(MSG_MARG_OUTFILE));
1166     else
1167         ofl->ofl_name = (const char *)optarg;
1168     break;
1169
1170 case 'p':
1171     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1172     /*
1173      * Multiple instances of this option may occur. Each
1174      * additional instance is effectively concatenated to
1175      * the previous separated by a colon.
1176     */
1177     if (*optarg != '\0') {
1178         if ((ofl->ofl_audit =
1179             add_string(ofl->ofl_audit,
1180                         optarg)) ==
1181             (const char *)S_ERROR)
1182             return (S_ERROR);
1183     }
1184     break;
1185
1186 case 'P':
1187     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1188     /*
1189      * Multiple instances of this option may occur. Each
1190      * additional instance is effectively concatenated to
1191      * the previous separated by a colon.
1192     */
1193     if (*optarg != '\0') {
1194         if ((ofl->ofl_deaudit =
1195             add_string(ofl->ofl_deaudit,
1196                         optarg)) ==
1197             (const char *)S_ERROR)
1198             return (S_ERROR);
1199     }
1200     break;
1201
1202 case 'r':
1203     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1204     rflag = TRUE;
1205     break;
1206
1207 case 'R':
1208     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1209     /*
1210      * Multiple instances of this option may occur. Each
1211      * additional instance is effectively concatenated to
1212      * the previous separated by a colon.
1213     */
1214     if (*optarg != '\0') {
1215         if ((ofl->ofl_rpath =
1216             add_string(ofl->ofl_rpath,
1217                         optarg)) ==
1218             (const char *)S_ERROR)
1219             return (S_ERROR);
1220     }
1221     break;

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1222     case 's':
1223         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1224         sflag = TRUE;
1225         break;
1226
1227     case 't':
1228         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1229         ofl->ofl_flags |= FLG_OF_NOWARN;
1230         break;
1231
1232     case 'u':
1233         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1234         break;
1235
1236     case 'z':
1237         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1238
1239         /*
1240          * For specific help, print our usage message and exit
1241          * immediately to ensure a 0 return code.
1242          */
1243         if (strncmp(optarg, MSG_ORIG(MSG_ARG_HELP),
1244             MSG_ARG_HELP_SIZE) == 0) {
1245             usage_msg(TRUE);
1246             exit(0);
1247         }
1248
1249         /*
1250          * For some options set a flag - further consistency
1251          * checks will be carried out in check_flags().
1252          */
1253         if ((strncmp(optarg, MSG_ORIG(MSG_ARG_LD32),
1254             MSG_ARG_LD32_SIZE) == 0) ||
1255             (strncmp(optarg, MSG_ORIG(MSG_ARG_LD64),
1256             MSG_ARG_LD64_SIZE) == 0)) {
1257             if (createargv(ofl, usage) == S_ERROR)
1258                 return (S_ERROR);
1259
1260         } else if (
1261             strncmp(optarg, MSG_ORIG(MSG_ARG_DEFS)) == 0) {
1262             if (zdflag != SET_UNKNOWN)
1263                 ld_eprintf(ofl, ERR_WARNING_NF,
1264                           MSG_INTL(MSG_ARG_MTONCE),
1265                           MSG_ORIG(MSG_ARG_ZDEFNODEF));
1266             else
1267                 zdflag = SET_TRUE;
1268             ofl->ofl_guideflags |= FLG_OFG_NO_DEFS;
1269         } else if (strncmp(optarg,
1270             MSG_ORIG(MSG_ARG_NODEFS)) == 0) {
1271             if (zdflag != SET_UNKNOWN)
1272                 ld_eprintf(ofl, ERR_WARNING_NF,
1273                           MSG_INTL(MSG_ARG_MTONCE),
1274                           MSG_ORIG(MSG_ARG_ZDEFNODEF));
1275             else
1276                 zdflag = SET_FALSE;
1277             ofl->ofl_guideflags |= FLG_OFG_NO_DEFS;
1278         } else if (strncmp(optarg,
1279             MSG_ORIG(MSG_ARG_TEXT)) == 0) {
1280             if (ztflag &&
1281                 (ztflag != MSG_ORIG(MSG_ARG_ZTEXT)))
1282                 ld_eprintf(ofl, ERR_FATAL,
1283                           MSG_INTL(MSG_ARG_INCOMP),
1284                           MSG_ORIG(MSG_ARG_ZTEXT),
1285                           ztflag);
1286             ztflag = MSG_ORIG(MSG_ARG_ZTEXT);
1287         } else if (strcmp(optarg,

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1288     MSG_ORIG(MSG_ARG_TEXTOFF)) == 0) {
1289         if (ztflag &&
1290             (ztflag != MSG_ORIG(MSG_ARG_ZTEXTOFF)))
1291             ld_eprintf(ofl, ERR_FATAL,
1292                         MSG_INTL(MSG_ARG_INCOMP),
1293                         MSG_ORIG(MSG_ARG_ZTEXTOFF),
1294                         ztflag);
1295         ztflag = MSG_ORIG(MSG_ARG_ZTEXTOFF);
1296     } else if (strcmp(optarg,
1297         MSG_ORIG(MSG_ARG_TEXTWARN)) == 0) {
1298         if (ztflag &&
1299             (ztflag != MSG_ORIG(MSG_ARG_ZTEXTWARN)))
1300             ld_eprintf(ofl, ERR_FATAL,
1301                         MSG_INTL(MSG_ARG_INCOMP),
1302                         MSG_ORIG(MSG_ARG_ZTEXTWARN),
1303                         ztflag);
1304         ztflag = MSG_ORIG(MSG_ARG_ZTEXTWARN);
1305
1306         /*
1307          * For other options simply set the ofl flags directly.
1308          */
1309     } else if (strcmp(optarg,
1310         MSG_ORIG(MSG_ARG_RESCAN)) == 0) {
1311         ofl->ofl_flags1 |= FLG_OF1_RESCAN;
1312     } else if (strcmp(optarg,
1313         MSG_ORIG(MSG_ARG_ABSEXEC)) == 0) {
1314         ofl->ofl_flags1 |= FLG_OF1_ABSEXEC;
1315     } else if (strcmp(optarg,
1316         MSG_ORIG(MSG_ARG_LOADFLTR)) == 0) {
1317         ziflag = TRUE;
1318     } else if (strcmp(optarg,
1319         MSG_ORIG(MSG_ARG_NORELOC)) == 0) {
1320         ofl->ofl_dtflags_1 |= DF_1_NORELOC;
1321     } else if (strcmp(optarg,
1322         MSG_ORIG(MSG_ARG_NOVERSION)) == 0) {
1323         ofl->ofl_flags |= FLG_OF_NOVERSEC;
1324     } else if (strcmp(optarg,
1325         MSG_ORIG(MSG_ARG_MULDEFS)) == 0) {
1326         ofl->ofl_flags |= FLG_OF_MULDEFS;
1327     } else if (strcmp(optarg,
1328         MSG_ORIG(MSG_ARG_REDLOCSYM)) == 0) {
1329         ofl->ofl_flags |= FLG_OF_REDLSYM;
1330     } else if (strcmp(optarg,
1331         MSG_ORIG(MSG_ARG_INITFIRST)) == 0) {
1332         ofl->ofl_dtflags_1 |= DF_1_INITFIRST;
1333     } else if (strcmp(optarg,
1334         MSG_ORIG(MSG_ARG_NODELETE)) == 0) {
1335         ofl->ofl_dtflags_1 |= DF_1_NODELETE;
1336     } else if (strcmp(optarg,
1337         MSG_ORIG(MSG_ARG_NOPARTIAL)) == 0) {
1338         ofl->ofl_flags1 |= FLG_OF1_NOPARTI;
1339     } else if (strcmp(optarg,
1340         MSG_ORIG(MSG_ARG_NOOPEN)) == 0) {
1341         ofl->ofl_dtflags_1 |= DF_1_NOOPEN;
1342     } else if (strcmp(optarg,
1343         MSG_ORIG(MSG_ARG_NOW)) == 0) {
1344         ofl->ofl_dtflags_1 |= DF_1_NOW;
1345         ofl->ofl_dtflags |= DF_BIND_NOW;
1346     } else if (strcmp(optarg,
1347         MSG_ORIG(MSG_ARG_ORIGIN)) == 0) {
1348         ofl->ofl_dtflags_1 |= DF_1_ORIGIN;
1349     } else if (strcmp(optarg,
1350         MSG_ORIG(MSG_ARG_NODEFAULTLIB)) == 0) {
1351         ofl->ofl_dtflags_1 |= DF_1_NODEFLIB;
1352     } else if (strcmp(optarg,

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1354             MSG_ORIG(MSG_ARG_NODUMP)) == 0) {
1355                 ofl->ofl_dtfllags_1 |= DF_1_NODUMP;
1356         } else if (strcmp(optarg,
1357                         MSG_ORIG(MSG_ARG_ENDFILTEE)) == 0) {
1358                 ofl->ofl_dtfllags_1 |= DF_1_ENDFILTEE;
1359         } else if (strcmp(optarg,
1360                         MSG_ORIG(MSG_ARG_VERBOSE)) == 0) {
1361                 ofl->ofl_flags |= FLG_OF_VERBOSE;
1362         } else if (strcmp(optarg,
1363                         MSG_ORIG(MSG_ARG_COMBRELOC)) == 0) {
1364                 ofl->ofl_flags |= FLG_OF_COMREL;
1365         } else if (strcmp(optarg,
1366                         MSG_ORIG(MSG_ARG_NOCOMBRELOC)) == 0) {
1367                 ofl->ofl_flags |= FLG_OF_NOCOMREL;
1368         } else if (strcmp(optarg,
1369                         MSG_ORIG(MSG_ARG_NOCOMPSTRTAB)) == 0) {
1370                 ofl->ofl_flags1 |= FLG_OF1_NCSTTAB;
1371         } else if (strcmp(optarg,
1372                         MSG_ORIG(MSG_ARG_NOINTERP)) == 0) {
1373                 ofl->ofl_flags1 |= FLG_OF1_NOINTRP;
1374         } else if (strcmp(optarg,
1375                         MSG_ORIG(MSG_ARG_INTERPOSE)) == 0) {
1376                 zinflag = TRUE;
1377         } else if (strcmp(optarg,
1378                         MSG_ORIG(MSG_ARG_IGNORE)) == 0) {
1379                 ofl->ofl_flags1 |= FLG_OF1_IGNPRC;
1380         } else if (strcmp(optarg,
1381                         MSG_ORIG(MSG_ARG_RELAXRELOC)) == 0) {
1382                 ofl->ofl_flags1 |= FLG_OF1_RLXREL;
1383         } else if (strcmp(optarg,
1384                         MSG_ORIG(MSG_ARG_NORELAXRELOC)) == 0) {
1385                 ofl->ofl_flags1 |= FLG_OF1_NRLXREL;
1386         } else if (strcmp(optarg,
1387                         MSG_ORIG(MSG_ARG_NOLDYNSYM)) == 0) {
1388                 ofl->ofl_flags1 |= FLG_OF_NOLDYNSYM;
1389         } else if (strcmp(optarg,
1390                         MSG_ORIG(MSG_ARG_GLOBAUDIT)) == 0) {
1391                 ofl->ofl_dtfllags_1 |= DF_1_GLOBAUDIT;
1392         } else if (strcmp(optarg,
1393                         MSG_ORIG(MSG_ARG_NOSIGHANDLER)) == 0) {
1394                 ofl->ofl_flags1 |= FLG_OF1_NOSGHND;
1395         } else if (strcmp(optarg,
1396                         MSG_ORIG(MSG_ARG_SYMBOLCAP)) == 0) {
1397                 ofl->ofl_flags |= FLG_OF_OTOSCAP;

1398         /*
1399         * Check archive group usage
1400         *      -z rescan-start ... -z rescan-end
1401         * to ensure they don't overlap and are well formed.
1402         */
1403     } else if (strcmp(optarg,
1404                     MSG_ORIG(MSG_ARG_RESCAN_START)) == 0) {
1405         if (ofl->ofl_ars_gsndx == 0) {
1406             ofl->ofl_ars_gsndx = ndx;
1407         } else if (ofl->ofl_ars_gsndx > 0) {
1408             /* Another group is still open */
1409             ld_eprintf(ofl, ERR_FATAL,
1410                         MSG_INTL(MSG_ARG_AR_GRP_OLAP),
1411                         MSG_INTL(MSG_MARG_AR_GRPS));
1412             /* Don't report cascading errors */
1413             ofl->ofl_ars_gsndx = -1;
1414         }
1415     } else if (strcmp(optarg,
1416                     MSG_ORIG(MSG_ARG_RESCAN_END)) == 0) {
1417         if (ofl->ofl_ars_gsndx > 0) {
1418             ofl->ofl_ars_gsndx = 0;
1419

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1420 } else if (ofl->ofl_ars_gsndx == 0) {
1421     /* There was no matching begin */
1422     ld_eprintf(ofl, ERR_FATAL,
1423             MSG_INTL(MSG_ARG_AR_GRP_BAD),
1424             MSG_INTL(MSG_MARG_AR_GRP_END),
1425             MSG_INTL(MSG_MARG_AR_GRP_START));
1426     /* Don't report cascading errors */
1427     ofl->ofl_ars_gsndx = -1;
1428 }
1429
1430 /*
1431 * If -z wrap is seen, enter the symbol to be wrapped
1432 * into the wrap AVL tree.
1433 */
1434 } else if (strncmp(optarg, MSG_ORIG(MSG_ARG_WRAP),
1435     MSG_ARG_WRAP_SIZE) == 0) {
1436     if (ld_wrap_enter(ofl,
1437         optarg + MSG_ARG_WRAP_SIZE) == NULL)
1438         return (S_ERROR);
1439 } else if (strncmp(optarg, MSG_ORIG(MSG_ARG_ASLR),
1440     MSG_ARG_ASLR_SIZE) == 0) {
1441     char *p = optarg + MSG_ARG_ASLR_SIZE;
1442     if (*p == '\0') {
1443         ofl->ofl_aslr = 1;
1444     } else if (*p == '=') {
1445         p++;
1446
1447     if ((strcmp(p,
1448         MSG_ORIG(MSG_ARG_ENABLED)) == 0) ||
1449         (strcmp(p,
1450             MSG_ORIG(MSG_ARG_ENABLE)) == 0)) {
1451         if (strcmp(p,
1452             MSG_ORIG(MSG_ARG_ENABLED)) == 0) {
1453             ofl->ofl_aslr = 1;
1454         } else if ((strcmp(p,
1455             MSG_ORIG(MSG_ARG_DISABLE)) == 0)) {
1456             ofl->ofl_aslr = -1;
1457         } else {
1458             ld_eprintf(ofl, ERR_FATAL,
1459                     MSG_INTL(MSG_ARG_ILLEGAL),
1460                     MSG_ORIG(MSG_ARG_ZASLR), p);
1461             return (S_ERROR);
1462         }
1463     } else {
1464         ld_eprintf(ofl, ERR_FATAL,
1465                 MSG_INTL(MSG_ARG_ILLEGAL),
1466                 MSG_ORIG(MSG_ARG_Z), optarg);
1467         return (S_ERROR);
1468     }
1469 } else if ((strncmp(optarg, MSG_ORIG(MSG_ARG_GUIDE),
1470     MSG_ARG_GUIDE_SIZE) == 0) &&
1471     ((optarg[MSG_ARG_GUIDE_SIZE] == '=') ||
1472     (optarg[MSG_ARG_GUIDE_SIZE] == '\0'))) {
1473     if (!guidance_parse(ofl, optarg))
1474         return (S_ERROR);
1475 } else if (strcmp(optarg,
1476     MSG_ORIG(MSG_ARG_FATWARN)) == 0) {
1477     if (zfwflag == SET_FALSE) {
1478         ld_eprintf(ofl, ERR_WARNING_NF,
1479                 MSG_INTL(MSG_ARG_MTONCE),
1480                 MSG_ORIG(MSG_ARG_ZFATWNOFATW));
1481 } else {

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1482             zfwfflag = SET_TRUE;
1483             ofl->ofl_flags |= FLG_OF_FATWARN;
1484         }
1485     } else if (strcmp(optarg,
1486                         MSG_ORIG(MSG_ARG_NOFATWARN)) == 0) {
1487         if ((zfwfflag == SET_TRUE)
1488             ld_eprintf(ofl, ERR_WARNING_NF,
1489                         MSG_INTL(MSG_ARG_MTONCE),
1490                         MSG_ORIG(MSG_ARG_ZFATWNOFATW));
1491     else
1492         zfwfflag = SET_FALSE;

1493     /*
1494     * Process everything related to -z assert-deflib. This
1495     * must be done in pass 1 because it gets used in pass
1496     * 2.
1497     */
1498 } else if (strncmp(optarg, MSG_ORIG(MSG_ARG_ASSDEFLIB),
1499                         MSG_ARG_ASSDEFLIB_SIZE) == 0) {
1500     if (assdeflib_parse(ofl, optarg) != TRUE)
1501         return (S_ERROR);
1502 }
1503 /*
1504 * The following options just need validation as they
1505 * are interpreted on the second pass through the
1506 * command line arguments.
1507 */
1508 } else if (
1509     strncmp(optarg, MSG_ORIG(MSG_ARG_INITARRAY),
1510                         MSG_ARG_INITARRAY_SIZE) &&
1511     strncmp(optarg, MSG_ORIG(MSG_ARG_FINIARRAY),
1512                         MSG_ARG_FINIARRAY_SIZE) &&
1513     strncmp(optarg, MSG_ORIG(MSG_ARG_PREINITARRAY),
1514                         MSG_ARG_PREINITARRAY_SIZE) &&
1515     strncmp(optarg, MSG_ORIG(MSG_ARG_RTLDINFO),
1516                         MSG_ARG_RTLDINFO_SIZE) &&
1517     strncmp(optarg, MSG_ORIG(MSG_ARG_DTRACE),
1518                         MSG_ARG_DTRACE_SIZE) &&
1519     strcmp(optarg, MSG_ORIG(MSG_ARG_ALLEXTRT)) &&
1520     strcmp(optarg, MSG_ORIG(MSG_ARG_DFLEXTRT)) &&
1521     strcmp(optarg, MSG_ORIG(MSG_ARG_DIRECT)) &&
1522     strcmp(optarg, MSG_ORIG(MSG_ARG_NODIRECT)) &&
1523     strcmp(optarg, MSG_ORIG(MSG_ARG_GROUPPERM)) &&
1524     strcmp(optarg, MSG_ORIG(MSG_ARG_LAZYLOAD)) &&
1525     strcmp(optarg, MSG_ORIG(MSG_ARG_NOGROUPPERM)) &&
1526     strcmp(optarg, MSG_ORIG(MSG_ARG_NOLAZYLOAD)) &&
1527     strcmp(optarg, MSG_ORIG(MSG_ARG_NODEFERRED)) &&
1528     strcmp(optarg, MSG_ORIG(MSG_ARG_RECORD)) &&
1529     strcmp(optarg, MSG_ORIG(MSG_ARG_ALTEXEC64)) &&
1530     strcmp(optarg, MSG_ORIG(MSG_ARG_WEAKEXT)) &&
1531     strncmp(optarg, MSG_ORIG(MSG_ARG_TARGET),
1532                         MSG_ARG_TARGET_SIZE) &&
1533     strcmp(optarg, MSG_ORIG(MSG_ARG_RESCAN_NOW)) &&
1534     strcmp(optarg, MSG_ORIG(MSG_ARG_DEFERRED))) {
1535     ld_eprintf(ofl, ERR_FATAL,
1536                         MSG_INTL(MSG_ARG_ILLEGAL),
1537                         MSG_ORIG(MSG_ARG_Z), optarg);
1538 }

1540     break;

1542 case 'D':
1543     /*
1544     * If we have not yet read any input files go ahead
1545     * and process any debugging options (this allows any
1546     * argument processing, entrance criteria and library
1547     * initialization to be displayed). Otherwise, if an

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1548 * input file has been seen, skip interpretation until
1549 * process_files (this allows debugging to be turned
1550 * on and off around individual groups of files).
1551 */
1552 Dflag = 1;
1553 if (ofl->ofl_objscnt == 0) {
1554     if (dbg_setup(ofl, optarg, 2) == 0)
1555         return (S_ERROR);
1556 }
1557 /*
1558 * A diagnostic can only be provided after dbg_setup().
1559 * As this is the first diagnostic that can be produced
1560 * by ld(1), issue a title for timing and basic output.
1561 */
1562 if ((optitle == 0) && DBG_ENABLED) {
1563     optitle++;
1564     DBG_CALL(Dbg_basic_options(ofl->ofl_lml));
1565 }
1566 DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1567 break;
1568
1569 case 'B':
1570     DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1571     if (strcmp(optarg, MSG_ORIG(MSG_ARG_DIRECT)) == 0) {
1572         if (Bdflag == SET_FALSE) {
1573             ld_eprintf(ofl, ERR_FATAL,
1574                         MSG_INTL(MSG_ARG_INCOMP),
1575                         MSG_ORIG(MSG_ARG_BNODIRECT),
1576                         MSG_ORIG(MSG_ARG_BDIRECT));
1577         } else {
1578             Bdflag = SET_TRUE;
1579             ofl->ofl_guideflags |= FLG_OFG_NO_DB;
1580         }
1581     } else if (strcmp(optarg,
1582                         MSG_ORIG(MSG_ARG_NODIRECT)) == 0) {
1583         if (Bdflag == SET_TRUE) {
1584             if (Bdflag == SET_TRUE) {
1585                 ld_eprintf(ofl, ERR_FATAL,
1586                             MSG_INTL(MSG_ARG_INCOMP),
1587                             MSG_ORIG(MSG_ARG_BDIRECT),
1588                             MSG_ORIG(MSG_ARG_BNODIRECT));
1589             } else {
1590                 Bdflag = SET_FALSE;
1591                 ofl->ofl_guideflags |= FLG_OFG_NO_DB;
1592             }
1593         } else if (strcmp(optarg,
1594                         MSG_ORIG(MSG_STR_SYMBOLIC)) == 0)
1595             Bsflag = TRUE;
1596         else if (strcmp(optarg, MSG_ORIG(MSG_ARG_REDUCE)) == 0)
1597             ofl->ofl_flags |= FLG_OF_PROCRED;
1598         else if (strcmp(optarg, MSG_ORIG(MSG_STR_LOCAL)) == 0)
1599             Blflag = TRUE;
1600         else if (strcmp(optarg, MSG_ORIG(MSG_ARG_GROUP)) == 0)
1601             Bgflag = TRUE;
1602         else if (strcmp(optarg,
1603                         MSG_ORIG(MSG_STR_ELIMINATE)) == 0)
1604             Beflag = TRUE;
1605         else if (strcmp(optarg,
1606                         MSG_ORIG(MSG_ARG_TRANSLATOR)) == 0) {
1607             ld_eprintf(ofl, ERR_WARNING,
1608                         MSG_INTL(MSG_ARG_UNSUPPORTED),
1609                         MSG_ORIG(MSG_ARG_BTRANSLATOR));
1610         } else if (strcmp(optarg,
1611                         MSG_ORIG(MSG_STR_LD_DYNAMIC)) &&
1612                     strcmp(optarg, MSG_ORIG(MSG_ARG_STATIC))) {
1613             ld_eprintf(ofl, ERR_FATAL,

```

```

1614
1615             MSG_INTL(MSG_ARG_ILLEGAL),
1616             MSG_ORIG(MSG_ARG_CB), optarg);
1617         }
1618         break;
1619
1620     case 'G':
1621         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1622         Gflag = TRUE;
1623         break;
1624
1625     case 'L':
1626         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1627         break;
1628
1629     case 'M':
1630         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1631         if (aplist_append(&(ofl->ofl_maps), optarg,
1632                         AL_CNT_OFNL_MAPFILES) == NULL)
1633             return (S_ERROR);
1634         break;
1635
1636     case 'N':
1637         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1638         break;
1639
1640     case 'Q':
1641         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1642         if ((optarg[0] == 'n') && (optarg[1] == '\0')) {
1643             if (Qflag != SET_UNKNOWN)
1644                 ld_eprintf(ofl, ERR_WARNING_NF,
1645                           MSG_INTL(MSG_ARG_MTONCE),
1646                           MSG_ORIG(MSG_ARG_CQ));
1647             else
1648                 Qflag = SET_FALSE;
1649         } else if ((optarg[0] == 'y') && (optarg[1] == '\0')) {
1650             if (Qflag != SET_UNKNOWN)
1651                 ld_eprintf(ofl, ERR_WARNING_NF,
1652                           MSG_INTL(MSG_ARG_MTONCE),
1653                           MSG_ORIG(MSG_ARG_CQ));
1654             else
1655                 Qflag = SET_TRUE;
1656         } else {
1657             ld_eprintf(ofl, ERR_FATAL,
1658                         MSG_INTL(MSG_ARG_ILLEGAL),
1659                         MSG_ORIG(MSG_ARG_CQ), optarg);
1660         }
1661         break;
1662
1663     case 'S':
1664         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1665         if (aplist_append(&lib_support, optarg,
1666                         AL_CNT_SUPPORT) == NULL)
1667             return (S_ERROR);
1668         break;
1669
1670     case 'V':
1671         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1672         if (!Vflag)
1673             (void) fprintf(stderr, MSG_ORIG(MSG_STR_STRNL),
1674                           ofl->ofl_sgsid);
1675         Vflag = TRUE;
1676         break;
1677
1678     case 'Y':
1679         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, optarg));
1680         if (strncmp(optarg, MSG_ORIG(MSG_ARG_LCOM), 2) == 0) {

```

```

1681             if (Llibdir)
1682                 ld_eprintf(ofl, ERR_WARNING_NF,
1683                           MSG_INTL(MSG_ARG_MTONCE),
1684                           MSG_ORIG(MSG_ARG_CYL));
1685             else
1686                 Llibdir = optarg + 2;
1687         } else if (strncmp(optarg,
1688                           MSG_ORIG(MSG_ARG_UCOM), 2) == 0) {
1689             if (Ulibdir)
1690                 ld_eprintf(ofl, ERR_WARNING_NF,
1691                           MSG_INTL(MSG_ARG_MTONCE),
1692                           MSG_ORIG(MSG_ARG_CYU));
1693             else
1694                 Ulibdir = optarg + 2;
1695         } else if (strncmp(optarg,
1696                           MSG_ORIG(MSG_ARG_PCOM), 2) == 0) {
1697             if (Plibpath)
1698                 ld_eprintf(ofl, ERR_WARNING_NF,
1699                           MSG_INTL(MSG_ARG_MTONCE),
1700                           MSG_ORIG(MSG_ARG_CYP));
1701             else
1702                 Plibpath = optarg + 2;
1703         } else {
1704             ld_eprintf(ofl, ERR_FATAL,
1705                         MSG_INTL(MSG_ARG_ILLEGAL),
1706                         MSG_ORIG(MSG_ARG_CY), optarg);
1707         }
1708         break;
1709
1710     case '?':
1711         DBG_CALL(Dbg_args_option(ofl->ofl_lml, ndx, c, NULL));
1712         /*
1713          * If the option character is '--', we're looking at a
1714          * long option which couldn't be translated, display a
1715          * more useful error.
1716         */
1717         if (optopt == '--') {
1718             eprintf(ofl->ofl_lml, ERR_FATAL,
1719                     MSG_INTL(MSG_ARG_LONG_UNKNOWN),
1720                     argv[optind-1]);
1721         } else {
1722             eprintf(ofl->ofl_lml, ERR_FATAL,
1723                     MSG_INTL(MSG_ARG_UNKNOWN), optopt);
1724         }
1725         (*usage)++;
1726         break;
1727
1728     default:
1729         break;
1730     }
1731
1732     /*
1733      * Update the argument index for the next getopt() iteration.
1734      */
1735     ndx = optind;
1736
1737 } /* unchanged_portion_omitted_

```

new/usr/src/cmd/sgs/libld/common/libld.msg

```
*****
60508 Fri Nov 18 16:39:49 2016
new/usr/src/cmd/sgs/libld/common/libld.msg
7594 ld -zaslr should accept Solaris-compatible values
*****
```

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 # Copyright (c) 1995, 2010, Oracle and/or its affiliates. All rights reserved.
24 #
26 # Copyright (c) 2012, Joyent, Inc. All rights reserved.
28 #
30 @_START_
32 # Message file for cmd/sgs/libld.
34 @ MSG_ID_LIBLD
36 #
37 # TRANSLATION_NOTE -- Beginning of USAGE message
38 # The following messages are the usage messages for the ld command.
39 # Tab characters (\t) are used to align the messages.
40 #
41 # Each usage message starts with \t, and if the message has more than one
42 # line, the following messages are aligned by 3 tab characters.
43 # When you see \n\t\t\t, the first \n is used to change the line,
44 # and following 3 tab characters are used to align the line.
45 #
46 # Each usage message option is surrounded by [and]. Then the
47 # description of the option follows. The descriptions should be aligned,
48 # so tab characters are padded as needed after the closing bracket].
49 #
50 # How to align the messages are up to the translators and the
51 # localization engineers.
52 #
53 # In C locale, the first 3 messages would look like the following:
54 #
55 # usage: ld [-6:abc:.....] file(s)
56 # [-a] create an absolute file
57 # [-b] do not do special PIC relocations in a.out
58 # [-c file] record configuration 'file'
59 #
60 @ MSG_ARG_USAGE "usage: ld [-%s] file(s)\n"
61 @ MSG_ARG_DETAIL_3 "\t[-32]\t\tenforce a 32-bit link-edit\n"

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new/usr/src/cmd/sgs/libld/common/libld.msg

```
62 @ MSG_ARG_DETAIL_6      "\t[-64]\t\tenforce a 64-bit link-edit\n"  
63 @ MSG_ARG_DETAIL_A     "\t[-a]\t\tcreate an absolute file\n"  
64 @ MSG_ARG_DETAIL_B     "\t[-b]\t\tndo not do special PIC relocations in a.out\n"  
65 @ MSG_ARG_DETAIL_CBDR  "\t[-B direct | nodirect]\n\  
66                                \t\ttestablish direct bindings, or inhibit direct \  
67                                binding\n\  
68                                \t\ttto, the object being created\n"  
69 @ MSG_ARG_DETAIL_CBDY  "\t[-B dynamic | static]\n\  
70                                \t\ttsearch for shared libraries|archives\n"  
71 @ MSG_ARG_DETAIL_CBE   "\t[-B eliminate]\t\teliminate unqualified global \  
72                                symbols from the\n\t\ttsymbol table\n"  
73 @ MSG_ARG_DETAIL_CBG   "\t[-B group]\t\trelocate object from within group\n"  
74 @ MSG_ARG_DETAIL_CBL   "\t[-B local]\t\treduce unqualified global symbols to \  
75                                local\n"  
76 @ MSG_ARG_DETAIL_CBR   "\t[-B reduce]\t\tprocess symbol reductions\n"  
77 @ MSG_ARG_DETAIL_CBS   "\t[-B symbolic]\t\tbind external references to \  
78                                definitions when creating\n\  
79                                \t\ttshared objects\n"  
80 @ MSG_ARG_DETAIL_C      "\t[-c name]\t\trecord configuration file 'name'\n"  
81 @ MSG_ARG_DETAIL_CC    "\t[-C]\t\tdemangle C++ symbol name diagnostics\n"  
82 @ MSG_ARG_DETAIL_D     "\t[-d y | n]\t\toperate in dynamic|static mode\n"  
83 @ MSG_ARG_DETAIL_CD    "\t[-D token,...]\t\tprint diagnostic messages\n"  
84 @ MSG_ARG_DETAIL_E     "\t[-e epsym], [--entry epsym]\n\  
85                                \t\ttuse 'epsym' as entry point address\n"  
86 @ MSG_ARG_DETAIL_F     "\t[-f name], [--auxiliary name]\n\  
87                                \t\ttspecify library for which this file is an \  
88                                auxiliary\n\t\ttfilter\n"  
89 @ MSG_ARG_DETAIL_CF   "\t[-F name], [--filter name]\n\  
90                                \t\ttspecify library for which this file is a filter\n"  
91 @ MSG_ARG_DETAIL_CG   "\t[-G], [-shared]\n\  
92                                \t\ttcreate a shared object\n"  
93 @ MSG_ARG_DETAIL_H     "\t[-h name], [--soname name]\n\  
94                                \t\ttuse 'name' as internal shared object identifier\n"  
95 @ MSG_ARG_DETAIL_I     "\t[-i]\t\tignore LD_LIBRARY_PATH setting\n"  
96 @ MSG_ARG_DETAIL_CI   "\t[-I name]\t\tuse 'name' as path of interpreter\n"  
97 @ MSG_ARG_DETAIL_L     "\t[-l x], [-library x]\n\  
98                                \t\ttsearch for libx.so or libx.a\n"  
99 @ MSG_ARG_DETAIL_CL   "\t[-L path], [--library-path path]\n\  
100 @ MSG_ARG_DETAIL_M    "\t\ttsearch for libraries in directory 'path'\n"  
102 @ MSG_ARG_DETAIL_CM   "\t[-m]\t\tprint memory map\n"  
103 @ MSG_ARG_DETAIL_CN   "\t[-M mapfile]\t\tuse processing directives contained \  
104 @ MSG_ARG_DETAIL_O     in 'mapfile'\n"  
105 @ MSG_ARG_DETAIL_P     "\t[-N string]\t\tcreate a dynamic dependency for \  
106 @ MSG_ARG_DETAIL_O     'string'\n"  
107 @ MSG_ARG_DETAIL_P     "\t\ttname the output file 'outfile'\n"  
108 @ MSG_ARG_DETAIL_P     "\t[-p auditlib]\t\tidentify audit library to accompany \  
109                                this object\n"  
110 @ MSG_ARG_DETAIL_CP   "\t[-P auditlib]\t\tidentify audit library for \  
111                                processing the dependencies\n\  
112                                \t\ttthis object\n"  
113 @ MSG_ARG_DETAIL_CQ   "\t[-Q y | n]\t\tndo not place version information in \  
114                                output file\n"  
115 @ MSG_ARG_DETAIL_R   "\t[-r], [-relocatable]\n\  
116                                \t\ttcreate a relocatable object\n"  
117 @ MSG_ARG_DETAIL_CR   "\t[-R path], [-rpath path]\n\  
118                                \t\ttspecify a library search path to be used at run \  
119                                time\n"  
120 @ MSG_ARG_DETAIL_S   "\t[-s], [--strip-all]\n\  
121                                \t\ttstrip any symbol and debugging information\n"  
122 @ MSG_ARG_DETAIL_CS  "\t[-S supportlib]\n\  
123                                \t\ttspecify a link-edit support library\n"  
124 @ MSG_ARG_DETAIL_T   "\t[-T]\t\tndo not warn of multiply-defined symbols \  
125                                that have\n\t\ttdifferent sizes or alignments\n"  
126 @ MSG_ARG_DETAIL_U   "\t[-u symname], [--undefined symname]\n\  
127                                \t\ttcreate an undefined symbol 'symname'\n"
```

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128 @ MSG_ARG_DETAIL_CV      "\t[-v], [--version]\n"
129                               \t\tprint version information\n"
130 @ MSG_ARG_DETAIL_CY      "\t[-Y P,dirlist]\tuse 'dirlist' as a default path \
131                               when searching for\n"
132                               \t\tlibraries\n"
133 @ MSG_ARG_DETAIL_ZA      "\t[-z absexec]\twhen building an executable absolute \
134                               symbols\n \
135                               \t\tpreferenced in dynamic objects are promoted to\n \
136                               \t\tthe executable\n"
137 @ MSG_ARG_DETAIL_ZAE     "\t[-z allextract | defaultextract | weakextract],\n \
138                               \t[-whole-archive | --no-whole-archive]\n \
139                               \t\texttract all member files, only members that \
140                               \t\tresolve\n"
141                               \t\tpundefined or tentative symbols, or \
142                               \t\tallow extraction of\n \
143                               \t\tarchive members to resolve weak references from \
144                               \n\lt\larchive files\n"
145 @ MSG_ARG_DETAIL_ZAL     "\t[-z altexec64]\texecute the 64-bit link-editor\n"
146 @ MSG_ARG_DETAIL_ZADLIB  "\t[-z assert-deflib]\n"
147                               \t\tenables warnings for linking with libraries in \
148                               \n\lt\ldefault search path\n \
149                               \t[-z assert-deflib-libname]\n"
150                               \t\tenables warnings for linking with libraries in \
151                               \n\lt\ldefault search path, but 'libname' is exempt \
152                               \t[-z combreloc | nocombrelloc]\n \
153                               \t\tpcombine|do not combine multiple relocation \
154                               \t\tsections\n"
155 @ MSG_ARG_DETAIL_ZNC     "\t[-z nocmpstrtab]\n\t\tdisable compression of \
156                               \t\tstring tables\n"
157 @ MSG_ARG_DETAIL_ZDEF    "\t[-z deferred | nodeferred]\n \
158                               \t\tenable|disable deferred identification of \
159                               \t\tshared object\n\lt\tdependencies\n"
160 @ MSG_ARG_DETAIL_ZDFS   "\t[-z defs], [--no-undefined]\n \
161                               \t\tdisallow undefined symbol references\n"
162 @ MSG_ARG_DETAIL_ZDRS   "\t[-z direct | nodirect]\n \
163                               \t\tenable|disable direct binding to shared object\n \
164                               \t\tdependencies\n"
165 @ MSG_ARG_DETAIL_ZE      "\t[-z endfiltee]\tmarks a filtee such that it will \
166                               \t\tterminate a filters\n\lt\lsearch\n"
167 @ MSG_ARG_DETAIL_ZFATW   "\t[-z fatal-warnings | nofatal-warnings],\n \
168                               \t[--fatal-warnings | --no-fatal-warnings]\n \
169                               \t\tenable|disable treatment of warnings as fatal\n"
170 @ MSG_ARG_DETAIL_ZFA     "\t[-z finiarray-function]\n \
171                               \t\tname of function to be appended to the \
172                               \t\t.fini_array\n"
173 @ MSG_ARG_DETAIL_ZGP     "\t[-z groupperm | nogroupperm]\n \
174                               \t\tenable|disable setting of group permissions\n \
175                               \t\ton dynamic dependencies\n"
176 @ MSG_ARG_DETAIL_ZGUIDE  "\t[-z guidance | -z guidance=item1,item2,...]\n \
177                               \t\tenable guidance warnings. items: \
178                               \t\tnoall, nodefs,\n \
179                               \t\ttnodirect, nolazyload, nomapfile, notext, \
180                               \t\tounused\n"
181 @ MSG_ARG_DETAIL_ZH      "\t[-z help], [--help]\n \
182                               \t\tprint this usage message\n"
183 @ MSG_ARG_DETAIL_ZIG     "\t[-z ignore | record]\n \
184                               \t\tnignore|record unused dynamic dependencies\n"
185 @ MSG_ARG_DETAIL_ZINA    "\t[-z initarray=function]\n \
186                               \t\tnname of function to be appended to the \
187                               \t\t.init_array\n"
188 @ MSG_ARG_DETAIL_ZINI    "\t[-z initfirst]\tmark object to indicate that its \
189                               \t\t.init section should\n \
190                               \t\tbe executed before the .init section of any \
191                               \t\tother\n\lt\t\tobjects\n"
192 @ MSG_ARG_DETAIL_ZINT    "\t[-z interpose]\n \
193                               \t\tdynamic object is to be an 'interposer' on direct\n"

```

```

194                               \t\t\tbindings\n"
195 @ MSG_ARG_DETAIL_ZLAZY   "\t[-z lazyload | nolazyload]\n \
196                               \t\ttenable|disable delayed loading of shared \
197                               \t\tobject\n\lt\t\tdependencies\n"
198 @ MSG_ARG_DETAIL_ZLD32   "\t[-z ld32=arg1,arg2,...]\n \
199                               \t\t\tdefine arguments applicable to the \
200                               \t\t\t32-bit class of ld(1)\n"
201 @ MSG_ARG_DETAIL_ZLD64   "\t[-z ld64=arg1,arg2,...]\n \
202                               \t\t\tdefine arguments applicable to the \
203                               \t\t\t64-bit class of ld(1)\n"
204 @ MSG_ARG_DETAIL_ZLO     "\t[-z loadfltr]\tmark filter as requiring immediate \
205                               \t\tloading of its\n \
206                               \t\t\tfiltees at runtime\n"
207 @ MSG_ARG_DETAIL_ZM      "\t[-z muldefs], [--allow-multiple-definition]\n \
208                               \t\tallow multiply-defined symbols\n"
209 @ MSG_ARG_DETAIL_ZNDFS   "\t[-z nodefs]\tallow undefined symbol references\n"
210 @ MSG_ARG_DETAIL_ZNDEF   "\t[-z defaultlib]\n \
211                               \t\t\tmark object to ignore any default library \
212                               \t\t\tsearch path\n"
213 @ MSG_ARG_DETAIL_ZNDEL   "\t[-z nodelete]\tmark object as non-deletable\n"
214 @ MSG_ARG_DETAIL_ZNDOLO  "\t[-z nodlopen]\tmark object as non-dlopen()'able\n"
215 @ MSG_ARG_DETAIL_ZNDU   "\t[-z nodump]\tmark object as non-dldump()'able\n"
216 @ MSG_ARG_DETAIL_ZNLND  "\t[-z noldynsym]\tdo not add a .SUNW_ldynsym section\n"
217 @ MSG_ARG_DETAIL_ZNPA   "\t[-z nopartial]\texpand any partially initialized \
218                               \t\tsymbols\n"
219 @ MSG_ARG_DETAIL_ZNV    "\t[-z noversion]\tdo not record any version sections\n"
220 @ MSG_ARG_DETAIL_ZNOW   "\t[-z now]\tmark object as requiring non-lazy \
221                               \t\tbinding\n"
222 @ MSG_ARG_DETAIL_ZO     "\t[-z origin]\tmark object as requiring $ORIGIN \
223                               \t\tprocessing\n"
224 @ MSG_ARG_DETAIL_ZPIA   "\t[-z preinitarray=function]\n \
225                               \t\tname of function to be appended to the \
226                               \t\t.preinit_array\n"
227 @ MSG_ARG_DETAIL_ZRL    "\t[-z redlocsym]\treduce local syms in .symtab to \
228                               \t\tminimum\n"
229 @ MSG_ARG_DETAIL_ZRREL  "\t[-z relaxreloc]\trelax rules used for relocations \
230                               \t\tagainst COMDAT sections\n"
231 @ MSG_ARG_DETAIL_ZRS   "\t[-z rescans]\tafter processing all arguments, rescan \
232                               \t\tarchive list\n"
233 @ MSG_ARG_DETAIL_ZRSN  "\t[-z until no further member extraction occurs]\n"
234 @ MSG_ARG_DETAIL_ZRSN  "\t[-z rescan-now]\timmediately rescan archive list \
235                               \t\tuntil\n \
236                               \t\t\tno further member extraction occurs\n"
237 @ MSG_ARG_DETAIL_ZRSGRP "\t[-z rescan-start archives... -z rescan-end],\n \
238                               \t\t\tstart-group archives... --end-group], \
239                               \t\t\t(- archives... -)]\n \
240                               \t\t\trescan specified archive group upon reaching\n \
241                               \t\t\tthe end of the group, until no further\n \
242                               \t\t\tmember extraction occurs\n"
243 @ MSG_ARG_DETAIL_ZSCAP  "\t[-z symbolcap]\tconvert object capabilities to \
244                               \t\tsymbol capabilities\n"
245 @ MSG_ARG_DETAIL_ZTARG  "\t[-z target=platform]\n \
246                               \t\ttarget machine for cross linking\n"
247 @ MSG_ARG_DETAIL_ZT    "\t[-z text]\tdisallow output relocations against \
248                               \t\ttext\n"
249 @ MSG_ARG_DETAIL_ZTO    "\t[-z textoff]\tallow output relocations against \
250                               \t\ttext\n"
251 @ MSG_ARG_DETAIL_ZTW   "\t[-z textwarn]\twarn if there are relocations \
252                               \t\tagainst text\n"
253 @ MSG_ARG_DETAIL_ZWRAP  "\t[-z wrap=symbol], [-wrap=symbol], [--wrap=symbol]\n \
254                               \t\twrap symbol references\n"
255 @ MSG_ARG_DETAIL_ZVER   "\t[-z verbose]\t\
256                               \t\tgenerate warnings for suspicious processings\n"
258 #
259 # TRANSLATION_NOTE -- End of USAGE message

```

new/usr/src/cmd/sgs/libld/common/libld.msg

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```

260 #
261 @ MSG_GRP_INVALNDX      "file %s: group section [%u]s: entry %d: \
262                                invalid section index: %d"
263 #
264 # Relocation processing messages (some of these are required to satisfy
265 # do_reloc(), which is common code used by cmd/sgs/rtld - make sure both
266 # message files remain consistent).
267 #
268 @ MSG_REL_NOFIT          "relocation error: %s: file %s: symbol %s: \
269                                value 0x%llx does not fit"
270 @ MSG_REL_NONALIGN       "relocation error: %s: file %s: symbol %s: \
271                                offset 0x%llx is non-aligned"
272 @ MSG_REL_NULL           "relocation error: file %s: section [%u]s: \
273                                skipping null relocation record"
274 @ MSG_REL_NOTSUP         "relocation error: %s: file %s: section [%u]s: \
275                                relocation not currently supported"
276 @ MSG_REL_PICREDLOC     "relocation error: %s: file %s symbol %s: \
277                                -z redlocsym may not be used for pic code"
278 @ MSG_REL_TLSLE          "relocation error: %s: file %s: symbol %s: \
279                                relocation illegal when building a shared object"
280 @ MSG_REL_TLSBND         "relocation error: %s: file %s: symbol %s: \
281                                bound to: %s: relocation illegal when not bound \
282                                to object being created"
283 @ MSG_REL_TLSSTAT        "relocation error: %s: file %s: symbol %s: \
284                                relocation illegal when building a static object"
285 @ MSG_REL_TLSBADSYM      "relocation error: %s: file %s: symbol %s: \
286                                bad symbol type %s: symbol type must be TLS"
287 @ MSG_REL_BADTLS         "relocation error: %s: file %s: symbol %s: \
288                                relocation illegal for TLS symbol"
289 @ MSG_REL_BADGOTBASED    "relocation error: %s: file %s: symbol %s: a GOT \
290                                relative relocation must reference a local symbol"
291 @ MSG_REL_UNKNWSYM       "relocation error: %s: file %s: section [%u]s: \
292                                attempt to relocate with respect to unknown \
293                                symbol %s: offset 0x%llx, symbol index %d"
294 @ MSG_REL_UNSUPSZ        "relocation error: %s: file %s: symbol %s: \
295                                offset size (%d bytes) is not supported"
296 @ MSG_REL_INVALOFFSET    "relocation error: %s: file %s section [%u]s: \
297                                invalid offset symbol '%s': offset 0x%llx"
298 @ MSG_REL_INVALRELT     "relocation error: file %s: section [%u]s: \
299                                invalid relocation type: 0x%x"
300 @ MSG_REL_EMPTYSEC       "relocation error: %s: file %s: symbol %s: \
301                                attempted against empty section [%u]s"
302 @ MSG_REL_EXTERNSYM      "relocation error: %s: file %s: symbol %s: \
303                                external symbolic relocation against non-allocatable \
304                                section %s; cannot be processed at runtime: \
305                                relocation ignored"
306 @ MSG_REL_UNEXPREL       "relocation error: %s: file %s: symbol %s: \
307                                unexpected relocation; generic processing performed"
308 @ MSG_REL_UNEXPSYM       "relocation error: %s: file %s: symbol %s: \
309                                unexpected symbol referenced from file %s"
310 @ MSG_REL_SYMDISC        "relocation error: %s: file %s: section [%u]s: \
311                                symbol %s: symbol has been discarded with discarded \
312                                section: [%u]s"
313 @ MSG_REL_NOSYMBOL       "relocation error: %s: file %s: section: [%u]s: \
314                                offset: 0x%llx: relocation requires reference symbol"
315 @ MSG_REL_DISPREL1       "relocation error: %s: file %s: symbol %s: \
316                                displacement relocation applied to the symbol \
317                                %s at 0x%llx: symbol %s is a copy relocated symbol"
318 @ MSG_REL_UNSUPSIZE      "relocation error: %s: file %s: section [%u]s: \
319                                relocation against section symbol unsupported"
320 #
321 @ MSG_REL_DISPREL2       "relocation warning: %s: file %s: symbol %s: \
322                                may contain displacement relocation"
323 @ MSG_REL_DISPREL3       "relocation warning: %s: file %s: symbol %s: \
324                                displacement relocation applied to the symbol \
325                                %s: at 0x%llx: displacement relocation will not be \

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new/usr/src/cmd/sgs/libld/common/libld.msc

```

326
327 @ MSG_REL_DISPREL4      visible in output image"
328
329 "relocation warning: %s: file %s: symbol %s: \
330   displacement relocation to be applied to the symbol \
331   %s: at 0x%llx: displacement relocation will be \
332   visible in output image"
333
334 @ MSG_REL_COPY          "relocation warning: %s: file %s: symbol %s: \
335   relocation bound to a symbol with STV_PROTECTED \
336   visibility"
337
338 @ MSG_REL_INVSPEC      "relocation warning: %s: file %s: section: [%u]%s: \
339   against suspicious section [%u]%; relocation ignored"
340 @ MSG_REL_TLSIE          "relocation warning: %s: file %s: symbol %s: \
341   relocation has restricted use when building a shared \
342   object"
343
344 @ MSG_REL_SLOPCDATNONAM "relocation warning: %s: file %s: section [%u]%s: \
345   relocation against discarded COMDAT section [%u]%; \
346   redirected to file %s"
347
348 @ MSG_REL_SLOPCDATNAM   "relocation warning: %s: file %s: section [%u]%s: \
349   symbol %s: relocation against discarded COMDAT \
350   section [%u]%; redirected to file %s"
351
352 @ MSG_REL_SLOPCDATNOSYM "relocation warning: %s: file %s: section [%u]%s: \
353   symbol %s: relocation against discarded COMDAT \
354   section [%u]%; symbol not found, relocation ignored"
355
356 @ MSG_REL_NOREG          "relocation error: REGISTER relocation not supported \
357   on target architecture"
358
359 #
360 # TRANSLATION_NOTE
361 #   The following 7 messages are the message to print the
362 #   following example messages.
363 #
364 #   #Text relocation remains
365 #   #against symbol
366 #   #str
367 #   #printf
368 #   #The first two lines are the header, and the next msgid
369 #   #is the format string for the header.
370 #   #Tabs and spaces are used for alignment.
371 #   #The first and third %s are for: "Text relocation remains against symbol"
372 #   #The second %s and fourth %s are for: "referenced in file"
373 #   #The third %s is for: "offset"
374 #
375 @ MSG_REL_REMAIN_FMT_1    "%-40s\t%s\n      %s\t\t\t %s\t%s"
376
377 # TRANSLATION_NOTE
378 #   The next two msdid make a sentence. So translate:
379 #   "Text relocation remain against symbol"
380 #   And separate them into two msgstr considering the proper
381 #   alignment.
382 @ MSG_REL_RMN_ITM_11      "Text relocation remains"
383 @ MSG_REL_RMN_ITM_12      "against symbol"
384 @ MSG_REL_RMN_ITM_13      "warning: Text relocation remains"
385
386 @ MSG_REL_RMN_ITM_2       "offset"
387
388 # TRANSLATION_NOTE
389 #   The next two msdid make a sentence. So translate:
390 #   "referenced in file"
391 #   And separate them into two msgstr considering the proper
392 #   alignment.
393 @ MSG_REL_RMN_ITM_31      "referenced"
394 @ MSG_REL_RMN_ITM_32      "in file"
395 @ MSG_REL_RMNP_2           "%-35s 0x%-8llx\t%s"

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392 @ MSG_REL_REMAIN_3      "relocations remain against allocatable but \
393                           non-writable sections"

395 # Files processing messages

397 @ MSG_FIL_MULINC_1      "file %s: attempted multiple inclusion of file"
398 @ MSG_FIL_MULINC_2      "file %s: linked to %s: attempted multiple inclusion \
399                           of file"
400 @ MSG_FIL_SOINSTAT      "input of shared object '%s' in static mode"
401 @ MSG_FIL_INVALSEC      "file %s: section [%u] has invalid type %s"
402 @ MSG_FIL_NOTFOUND      "file %s: required by %s, not found"
403 @ MSG_FIL_MALSTR        "file %s: section [%u] malformed string table, \
404                           initial or final byte"
405 @ MSG_FIL_PTHTOULONG    "'%s' pathname too long"
406 @ MSG_FIL_EXCLUDE        "file %s: section [%u] contains both SHF_EXCLUDE and \
407                           SHF_ALLOC flags: SHF_EXCLUDE ignored"
408 @ MSG_FIL_INTERRUPT      "file %s: creation interrupted: %s"
409 @ MSG_FIL_INVRELOC1     "file %s: section [%u]: relocations can not be \
410                           applied against section [%u]"
411 @ MSG_FIL_INVSHINFO      "file %s: section [%u] has invalid sh_info: %lld"
412 @ MSG_FIL_INVSHLINK      "file %s: section [%u] has invalid sh_link: %lld"
413 @ MSG_FIL_INVSHTENSIZE   "file %s: section [%u] has invalid sh_entsize: %lld"
414 @ MSG_FIL_NOSTRTABLE     "file %s: section [%u] symbol[%d]: specifies string \
415                           table offset 0x%llx: no string table is available"
416 @ MSG_FIL_EXCSTRTABLE    "file %s: section [%u] symbol[%d]: specifies string \
417                           table offset 0x%llx: exceeds string table %s: \
418                           size 0x%llx"
419 @ MSG_FIL_NONAMESYM     "file %s: section [%u] symbol[%d]: global symbol has \
420                           no name"
421 @ MSG_FIL_UNKCAP        "file %s: section [%u] unknown capability tag: %d"
422 @ MSG_FIL_BADSF1         "file %s: section [%u] unknown software \
423                           capabilities: 0x%llx; ignored"
424 @ MSG_FIL_INADDR32SF1    "file %s: section [%u] software capability ADDR32: is \
425                           ineffective when building 32-bit object; ignored"
426 @ MSG_FIL_EXADDR32SF1   "file %s: section [%u] software capability ADDR32: \
427                           requires executable be built with ADDR32 capability"

429 @ MSG_FIL_BADORDREF    "file %s: section [%u] contains illegal reference \
430                           to discarded section: [%u]"

432 # Recording name conflicts

434 @ MSG_REC_OPTCNFLT     "recording name conflict: file '%s' and %s provide \
435                           identical dependency names: %s"
436 @ MSG_REC_OBJCNFILT     "recording name conflict: file '%s' and file '%s' \
437                           provide identical dependency names: %s %s"
438 @ MSG_REC_CNFTHINT      "(possible multiple inclusion of the same file)"

440 # System call messages

442 @ MSG_SYS_OPEN           "file %s: open failed: %s"
443 @ MSG_SYS_UNLINK          "file %s: unlink failed: %s"
444 @ MSG_SYS_MMAPANON        "mmap anon failed: %s"
445 @ MSG_SYS_MALLOC           "malloc failed: %s"

448 # Messages related to platform support

450 @ MSG_TARG_UNSUPPORTED    "unsupported ELF machine type: %s"

453 # ELF processing messages

455 @ MSG_ELF_LIBELF          "libelf: version not supported: %d"
457 @ MSG_ELF_ARMEM           "file %s: unable to locate archive member;\n\t\

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458                                         offset=%x, symbol=%s"
460 @ MSG_ELF_ARSYM          "file %s ignored: unable to locate archive symbol table"
462 @ MSG_ELF_VERSYM          "file %s: version symbol section entry mismatch:\n\\t\
463                           (section [%u] entries=%d; section [%u] entries=%d)"
465 @ MSG_ELF_NOGROUPSECT    "file %s: section [%u] SHF_GROUP flag set, but no \
466                           corresponding SHT_GROUP section found"

468 # Section processing errors

470 @ MSG_SCN_NONALLOC        "%s: non-allocatable section '%s' directed to a \
471                           loadable segment: %s"
473 @ MSG_SCN_MULTICOMDAT    "file %s: section [%u] cannot be susceptible to multi \
474                           COMDAT mechanisms: %s"
476 @ MSG_SCN_DWFOPRFLW       "%s: section %s: encoded DWARF data exceeds \
477                           section size"
478 @ MSG_SCN_DWFBADEC       "%s: section %s: invalid DWARF encoding: %#x"

480 # Symbol processing errors

482 @ MSG_SYM_NOSECDEF        "symbol '%s' in file %s has no section definition"
483 @ MSG_SYM_INVSEC          "symbol '%s' in file %s associated with invalid \
484                           section[%lld]"
485 @ MSG_SYM_TLS              "symbol '%s' in file %s (STT_TLS), is defined \
486                           in a non-SHT_TLS section"
487 @ MSG_SYM_BADADDR          "symbol '%s' in file %s: section [%u] size %#llx: \
488                           symbol (address %#llx, size %#llx) lies outside \
489                           of containing section"
490 @ MSG_SYM_BADADDR_ROTXT   "symbol '%s' in file %s: readonly text section \
491                           [%u] size %#llx: symbol (address %#llx, \
492                           size %#llx) lies outside of containing section"
493 @ MSG_SYM_MULDEF          "symbol '%s' is multiply-defined"
494 @ MSG_SYM_CONFVIS         "symbol '%s' has conflicting visibilities"
495 @ MSG_SYM_DIFFTYPE         "symbol '%s' has differing types:\n\
496 @ MSG_SYM_DIFFATTR         "\t(file %s value=0x%llx; file %s value=0x%llx);"
497                                         "\t(file %s type=%s; file %s type=%s);"
498 @ MSG_SYM_FILETYPES        "\t(file %s visibility=%s; file %s visibility=%s);"
500 @ MSG_SYM_DEFTAKEN        "\t%s definition taken"
501 @ MSG_SYM_DEFUPDATE        "\t%s definition taken and updated with larger size"
502 @ MSG_SYM_LARGER           "\tlargest value applied"
503 @ MSG_SYM_TENTERR          "\ttentative symbol cannot override defined symbol \
504                           of smaller size"

506 @ MSG_SYM_INVSHNDX        "symbol %s has invalid section index; \
507                           ignored:\n\t(file %s value=%s);"
508 @ MSG_SYM_NONGLOB          "global symbol %s has non-global binding:\n\\t\
509                           (file %s value=%s);"
510 @ MSG_SYM_RESERVE          "reserved symbol '%s' already defined in file %s"
511 @ MSG_SYM_NOTNULL          "undefined symbol '%s' with non-zero value encountered \
512                           from file %s"
513 @ MSG_SYM_DUPSORTADDR      "section %s: symbol '%s' and symbol '%s' have the \
514                           same address: %#llx: remove duplicate with \
515                           NOSORTSYM mapfile directive"

517 @ MSG_PSYM_INVMINFO1       "file %s: section [%u] entry[%d] has invalid m_info: \
518                           0x%llx for symbol index"
519 @ MSG_PSYM_INVMINFO2       "file %s: section [%u] entry[%d] has invalid m_info: \
520                           0x%llx for size"
521 @ MSG_PSYM_INVMREPEAT      "file %s: section [%u] entry[%d] has invalid m_repeat \
522                           0x%llx"
523 @ MSG_PSYM_CANTNOTEPRND   "file %s: section [%u] entry[%d] can not be expanded:
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524      associated symbol size is unknown %s"
525 @ MSG_PSYM_NOSTATIC    "and partial initialization cannot be deferred to \
526                                a static object"
527 @ MSG_MOVE_OVERLAP     "file %s: section [%u] %s: symbol '%s' overlapping move \
528                                initialization: start=0x%llx, length=0x%llx: \
529                                start=0x%llx, length=0x%llx"
530 @ MSG_PSYM_EXPREASON1   "output file is static object"
531 @ MSG_PSYM_EXPREASON2   "-z nopartial option in effect"
532 @ MSG_PSYM_EXPREASON3   "move infrastructure size is greater than move data"

534 #
535 # Support library failures
536 #
537 @ MSG_SUP_NOLOAD       "dlopen() of support library (%s) failed with \
538                                error: %s"
539 @ MSG_SUP_BADVERSION   "initialization of support library (%s) failed with \
540                                bad version. supported: %d returned: %d"

543 #
544 # TRANSLATION_NOTE
545 #      The following 7 messages are the message to print the
546 #      following example messages.
547 #
548 #Undefined               first referenced
549 # symbol                 in file
550 #inquire                halt_hold.o
551 #
552 @ MSG_SYM_FMT_UNDEF    "%s\t\t\t%s\
553          \n %s \t\t\t %s"

555 #
556 # TRANSLATION_NOTE
557 #      The next two msdid make a sentence. So translate:
558 #          "Undefined symbol"
559 #      And separate them into two msgstr considering the proper
560 #      alignment.
561 @ MSG_SYM_UNDEF_ITM_11  "Undefined"
562 @ MSG_SYM_UNDEF_ITM_12  "symbol"

563 #
564 # TRANSLATION_NOTE
565 #      The next two msdid make a sentence. So translate:
566 #          "first referenced in file"
567 #      And separate them into two msgstr considering the proper
568 #      alignment.
569 @ MSG_SYM_UNDEF_ITM_21  "first referenced"
570 @ MSG_SYM_UNDEF_ITM_22  "in file"
571 #

573 @ MSG_SYM_UND_UNDEF    "%-35s %s"
574 @ MSG_SYM_UND_NOVER    "%-35s %s (symbol has no version assigned)"
575 @ MSG_SYM_UND_IMPL     "%-35s %s (symbol belongs to implicit dependency %s)"
576 @ MSG_SYM_UND_NOTA     "%-35s %s (symbol belongs to unavailable version %s \
577                                (%s))"
578 @ MSG_SYM_UND_BNDLOCAL "%-35s %s (symbol scope specifies local binding)"

580 @ MSG_SYM_ENTRY         "entry point"
581 @ MSG_SYM_UNDEF         "%s symbol '%s' is undefined"
582 @ MSG_SYM_EXTERN        "%s symbol '%s' is undefined (symbol belongs to \
583                                dependency %s)"
584 @ MSG_SYM_NOCRT        "symbol '%s' not found, but %s section exists - \
585                                possible link-edit without using the compiler driver"

587 # Output file update messages

589 @ MSG_UPD_NOREADSEG    "No read-only segments found. Setting '_etext' to 0"

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590 @ MSG_UPD_NORDWRSEG    "No read-write segments found. Setting '_edata' to 0"
591 @ MSG_UPD_NOSEG         "Setting 'end' and '_end' to 0"

593 @ MSG_UPD_SEGOVERLAP   "%s: segment address overlap;\n\
594                                \tprevious segment ending at address 0x%llx overlaps\n\
595                                \tuser defined segment '%s' starting at address 0x%llx"
596 @ MSG_UPD_LARGSIZE      "%s: segment %s calculated size 0x%llx\n\
597                                \tis larger than user-defined size 0x%llx"

599 @ MSG_UPD_NOBITS        "NOBITS section found before end of initialized data"
600 @ MSG_SEG_FIRNOTLOAD   "First segment has type %s, PT_LOAD required: %s"
601 @ MSG_UPD_MULEHFRAME   "file %s: section [%u] %s and file %s: section [%u] %s \
602                                have incompatible attributes and cannot \
603                                be merged into a single output section"

606 # Version processing messages

608 @ MSG_VER_HIGHER       "file %s: version revision %d is higher than \
609                                expected %d"
610 @ MSG_VER_NOEXIST       "file %s: version '%s' does not exist:\n\
611                                \trequired by file %s"
612 @ MSG_VER_UNDEF         "version '%s' undefined, referenced by version '%s':\n\
613                                \trequired by file %s"
614 @ MSG_VER_UNAVAIL       "file %s: version '%s' is unavailable:\n\
615                                \trequired by file %s"
616 @ MSG_VER_DEFINED       "version symbol '%s' already defined in file %s"
617 @ MSG_VER_INVALNDX     "version symbol '%s' from file %s has an invalid \
618                                version index (%d)"
619 @ MSG_VER_ADDVERS      "unused $ADDVERS specification from file '%s' \
620                                for object '%s'\nversion(s):"
621 @ MSG_VER_ADDVER       "\t%s"
622 @ MSG_VER_CYCLIC        "following versions generate cyclic dependency:"

624 # Capabilities messages

626 @ MSG_CAP_MULDEF        "capabilities symbol '%s' has multiply-defined members:"
627 @ MSG_CAP_MULDEFSYMS   "\t(file %s symbol '%s'; file %s symbol '%s');"
628 @ MSG_CAP_REDUNDANT     "file %s: section [%u] %s: symbol capabilities \
629                                redundant, as object capabilities are more restrictive"
630 @ MSG_CAP_NOSYMSFOUND   "no global symbols have been found that are associated \
631                                with capabilities identified relocatable objects: \
632                                -z symbolcap has no effect"
634 @ MSG_CAPINFO_INVALSYM  "file %s: capabilities info section [%u] %s: index %d: \
635                                \tfamily member symbol '%s': invalid"
636 @ MSG_CAPINFO_INVALIDLEAD "file %s: capabilities info section [%u] %s: index %d: \
637                                \tfamily lead symbol '%s': invalid symbol index %d"

639 # Basic strings

641 @ MSG_STR_ALIGNMENTS    "alignments"
642 @ MSG_STR_COMMAND       "(command line)"
643 @ MSG_STR_TLSREL        "(internal TLS relocation requirement)"
644 @ MSG_STR_SIZES          "sizes"
645 @ MSG_STR_UNKNOWN        "<unknown>"
646 @ MSG_STR_SECTION        "%s (section)"
647 @ MSG_STR_SECTION_MSTR   "%s (merged string section)"

649 #
650 # TRANSLATION_NOTE
651 #      The elf_ function name represents a man page reference and should not
652 #      be translated.
653 @ MSG_ELF_BEGIN          "file %s: elf_begin"
654 @ MSG_ELF_CNTL            "file %s: elf_cntl"
655 @ MSG_ELF_GETARHDR       "file %s: elf_getarhdr"

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656 @ MSG_ELF_GETARSYM      "file %s: elf_getarsym"
657 @ MSG_ELF_GETDATA       "file %s: elf_getdata"
658 @ MSG_ELF_GETEHDR       "file %s: elf_getehdr"
659 @ MSG_ELF_GETPHDR       "file %s: elf_getphdr"
660 @ MSG_ELF_GETSCN        "file %s: elf_getscn: scnndx: %d"
661 @ MSG_ELF_GETSHDR       "file %s: elf_getshdr"
662 @ MSG_ELF_MEMORY         "file %s: elf_memory"
663 @ MSG_ELF_NDXSCN        "file %s: elf_ndxscn"
664 @ MSG_ELF_NEWDATA        "file %s: elf_newdata"
665 @ MSG_ELF_NEWEHDR       "file %s: elf_newehdr"
666 @ MSG_ELF_NEWSCN        "file %s: elf_newscn"
667 @ MSG_ELF_NEWPHDR       "file %s: elf_newphdr"
668 @ MSG_ELF_STR PTR        "file %s: elf_stptr"
669 @ MSG_ELF_UPDATE         "file %s: elf_update"
670 @ MSG_ELF_SWAP_WRIMAGE  "file %s: _elf_swap_wrimage"

673 @ MSG_REJ_MACH          "file %s: wrong ELF machine type: %s"
674 @ MSG_REJ_CLASS          "file %s: wrong ELF class: %s"
675 @ MSG_REJ_DATA           "file %s: wrong ELF data format: %s"
676 @ MSG_REJ_TYPE           "file %s: bad ELF type: %s"
677 @ MSG_REJ_BADFLAG        "file %s: bad ELF flags value: %s"
678 @ MSG_REJ_MISFLAG        "file %s: mismatched ELF flags value: %s"
679 @ MSG_REJ_VERSION        "file %s: mismatched ELF/lib version: %s"
680 @ MSG_REJ_HAL            "file %s: HAL R1 extensions required"
681 @ MSG_REJ_US3             "file %s: Sun UltraSPARC III extensions required"
682 @ MSG_REJ_STR             "file %s"
683 @ MSG_REJ_UNKFILE        "file %s: unknown file type"
684 @ MSG_REJ_UNKCAP          "file %s: unknown capability: %d"
685 @ MSG_REJ_HWCAP_1         "file %s: hardware capability (CA_SUNW_HW_1) \
                                unsupported: %s"
686 @ MSG_REJ_SFCAP_1         "file %s: software capability (CA_SUNW_SF_1) \
                                unsupported: %s"
687 @ MSG_REJ_MACHCAP        "file %s: machine capability (CA_SUNW_MACH) \
                                unsupported: %s"
688 @ MSG_REJ_PLATCAP        "file %s: platform capability (CA_SUNW_PLAT) \
                                unsupported: %s"
689 @ MSG_REJ_HWCAP_2         "file %s: hardware capability (CA_SUNW_HW_2) \
                                unsupported: %s"
690 @ MSG_REJ_ARCHIVE         "file %s: invalid archive use"

697 # Guidance messages
698 @ MSG_GUIDE_SUMMARY      "see ld(1) -z guidance for more information"
699 @ MSG_GUIDE_DEFS          "-z defs option recommended for shared objects"
700 @ MSG_GUIDE_DIRECT        "-B direct or -z direct option recommended before \
                                first dependency"
701 @ MSG_GUIDE_LAZYLOAD      "-z lazyload option recommended before \
                                first dependency"
702 @ MSG_GUIDE_MAPFILE        "version 2 mapfile syntax recommended: %s"
703 @ MSG_GUIDE_TEXT           "position independent (PIC) code recommended for \
                                shared objects"
704 @ MSG_GUIDE_UNUSED         "removal of unused dependency recommended: %s"

709 @ _END_

712 # The following strings represent reserved names. Reference to these strings
713 # is via the MSG_ORIG() macro, and thus translations are not required.

715 @ MSG_STR_EOF              "<eof>"
716 @ MSG_STR_ERROR             "<error>"
717 @ MSG_STR_EMPTY             ""
718 @ MSG_QSTR_BANG             "'!''"
719 @ MSG_QSTR_COLON             ":"":"
720 @ MSG_QSTR_COLON             "'::''"
721 @ MSG_QSTR_SEMICOLON        "';;'"
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722 @ MSG_QSTR_EQUAL          "'='"
723 @ MSG_QSTR_PLUSEQ         "'+='"
724 @ MSG_QSTR_MINUSEQ        "'-='"
725 @ MSG_QSTR_ATSIGN         "'@'"
726 @ MSG_QSTR_DASH            "'-'"
727 @ MSG_QSTR_LEFTBKT        "'{'"
728 @ MSG_QSTR_RIGHTBKT       "'}'"
729 @ MSG_QSTR_PIPE            "'|'"
730 @ MSG_QSTR_STAR             "'.'"
731 @ MSG_STR_DOT              "'.'"
732 @ MSG_STR_SLASH             "'/'"
733 @ MSG_STR_DYNAMIC          "(.dynamic)"
734 @ MSG_STR_ORIGIN            "$ORIGIN"
735 @ MSG_STR_MACHINE           "$MACHINE"
736 @ MSG_STR_PLATFORM          "$PLATFORM"
737 @ MSG_STR_ISALIST          "$ISALIST"
738 @ MSG_STR_OSNAME           "$OSNAME"
739 @ MSG_STR_OSREL             "$OSREL"
740 @ MSG_STR_UU_REAL_U        "$real_"
741 @ MSG_STR_UU_WRAP_U        "$wrap_"
742 @ MSG_STR_UELF32            "$ELF32"
743 @ MSG_STR_UELF64            "$ELF64"
744 @ MSG_STR_USPARC           "$sparc"
745 @ MSG_STR_UX86              "$x86"
746 @ MSG_STR_TRUE               "true"

748 @ MSG_STR_CDIR_ADD          "$add"
749 @ MSG_STR_CDIR_CLEAR        "$clear"
750 @ MSG_STR_CDIR_ERROR        "$error"
751 @ MSG_STR_CDIR_MFVER        "$mapfile_version"
752 @ MSG_STR_CDIR_IF            "$if"
753 @ MSG_STR_CDIR_ELIF         "$elif"
754 @ MSG_STR_CDIR_ELSE         "$else"
755 @ MSG_STR_CDIR_ENDIF        "$endif"

757 @ MSG_STR_GROUP             "GROUP"
758 @ MSG_STR_SUNW_COMDAT      "SUNW_COMDAT"

760 @ MSG_FMT_ARMEM             "%s(%s)"
761 @ MSG_FMT_COLPATH           "%s:%s"
762 @ MSG_FMT_SYNNAM            "%s"
763 @ MSG_FMT_NULLSYNNAM        "%s[%d]"
764 @ MSG_FMT_STRCAT            "%s%s"

766 @ MSG_PTH_RTLD              "/usr/lib/ld.so.1"

768 @ MSG_SUNW_OST_SGS          "SUNW_OST_SGS"

771 # Section strings

773 @ MSG_SCN_BSS                ".bss"
774 @ MSG_SCN_DATA                ".data"
775 @ MSG_SCN_COMMENT              ".comment"
776 @ MSG_SCN_DEBUG                ".debug"
777 @ MSG_SCN_DEBUG_INFO           ".debug_info"
778 @ MSG_SCN_DYNAMIC              ".dynamic"
779 @ MSG_SCN_DYNSYMSORT          ".SUNW_dyndymsort"
780 @ MSG_SCN_DYNTLSSORT          ".SUNW_dytllsort"
781 @ MSG_SCN_DYNSTR               ".dynstr"
782 @ MSG_SCN_DYNSYM                ".dynsym"
783 @ MSG_SCN_DYNSYM_SHNDX        ".dynsym_shndx"
784 @ MSG_SCN_LDYNSYM              ".SUNW_ldynsym"
785 @ MSG_SCN_LDYNSYM_SHNDX        ".SUNW_ldynsym_shndx"
786 @ MSG_SCN_EX_SHARED             ".ex_shared"
787 @ MSG_SCN_EX_RANGES            ".exception_ranges"
```

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788 @ MSG_SCN_EXCL      ".excl"
789 @ MSG_SCN_FINI      ".fini"
790 @ MSG_SCN_FINIARRAY ".fini_array"
791 @ MSG_SCN_GOT        ".got"
792 @ MSG_SCN_GNU_LINKONCE ".gnu.linkonce."
793 @ MSG_SCN_HASH       ".hash"
794 @ MSG_SCN_INDEX     ".index"
795 @ MSG_SCN_INIT       ".init"
796 @ MSG_SCN_INITARRAY ".init_array"
797 @ MSG_SCN_INTERP    ".interp"
798 @ MSG_SCN_LBSS       ".lbss"
799 @ MSG_SCN_LDATA      ".ldata"
800 @ MSG_SCN_LINE       ".line"
801 @ MSG_SCN_LRODATA   ".lrodata"
802 @ MSG_SCN_PLT        ".plt"
803 @ MSG_SCN_PREINITARRAY ".preinit_array"
804 @ MSG_SCN_REL         ".rel"
805 @ MSG_SCN_RELAA      ".rela"
806 @ MSG_SCN_RODATA     ".rodata"
807 @ MSG_SCN_SBSS       ".sbss"
808 @ MSG_SCN_SBSS2      ".sbss2"
809 @ MSG_SCN_SDATA      ".sdata"
810 @ MSG_SCN_SDATA2     ".sdata2"
811 @ MSG_SCN_SHSHRTAB   ".shstrtab"
812 @ MSG_SCN_STAB       ".stab"
813 @ MSG_SCN_STABEXCL   ".stab.exclstr"
814 @ MSG_SCN_STRTAB     ".strtab"
815 @ MSG_SCN_SUNWMOVE   ".SUNW_move"
816 @ MSG_SCN_SUNWRELOC   ".SUNW_reloc"
817 @ MSG_SCN_SUNWSYMINFO ".SUNW_syminfo"
818 @ MSG_SCN_SUNWVERSION ".SUNW_version"
819 @ MSG_SCN_SUNWVERSYM ".SUNW_versym"
820 @ MSG_SCN_SUNWCAP    ".SUNW_cap"
821 @ MSG_SCN_SUNWCAPINFO ".SUNW_capinfo"
822 @ MSG_SCN_SUNWCAPCHAIN ".SUNW_capchain"
823 @ MSG_SCN_SYMTAB     ".symtab"
824 @ MSG_SCN_SYMTAB_SHNDX ".symtab_shndx"
825 @ MSG_SCN_TBSS       ".tbss"
826 @ MSG_SCN_TDATA      ".tdata"
827 @ MSG_SCN_TEXT       ".text"

829 @ MSG_SYM_FINIARRAY "finiarray"
830 @ MSG_SYM_INITARRAY "initarray"
831 @ MSG_SYM_PREINITARRAY "preinitarray"

833 #
834 # GNU section names
835 #
836 @ MSG_SCN_CTORS      ".ctors"
837 @ MSG_SCN_DTORS      ".dtors"
838 @ MSG_SCN_EHFRAME    ".eh_frame"
839 @ MSG_SCN_EHFRAME_HDR ".eh_frame_hdr"
840 @ MSG_SCN_GCC_X_TBL  ".gcc_except_table"
841 @ MSG_SCN_JCR        ".jcr"

843 # Segment names for segments referenced by entrance criteria

845 @ MSG_ENT_BSS        "bss"
846 @ MSG_ENT_DATA       "data"
847 @ MSG_ENT_EXTRA      "extra"
848 @ MSG_ENT_LDATA      "ldata"
849 @ MSG_ENT_LRODATA    "lrodata"
850 @ MSG_ENT_NOTE       "note"
851 @ MSG_ENT_TEXT       "text"

853 # Symbol names

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855 @ MSG_SYM_START      "_start"
856 @ MSG_SYM_MAIN        "main"
858 @ MSG_SYM_FINI_U      "_fini"
859 @ MSG_SYM_INIT_U      "_init"
860 @ MSG_SYM_DYNAMIC      "DYNAMIC"
861 @ MSG_SYM_DYNAMIC_U    "_DYNAMIC"
862 @ MSG_SYM_EDATA        "edata"
863 @ MSG_SYM_EDATA_U      "_edata"
864 @ MSG_SYM_END          "end"
865 @ MSG_SYM_END_U        "_end"
866 @ MSG_SYM_ETEXT        "etext"
867 @ MSG_SYM_ETEXT_U      "_etext"
868 @ MSG_SYM_GOFTBL      "GLOBAL_OFFSET_TABLE_"
869 @ MSG_SYM_GOFTBL_U      "_GLOBAL_OFFSET_TABLE_"
870 @ MSG_SYM_PLKTBBL      "PROCEDURE_LINKAGE_TABLE_"
871 @ MSG_SYM_PLKTBBL_U    "_PROCEDURE_LINKAGE_TABLE_"
872 @ MSG_SYM_TLSGETADDR_U "__tls_get_addr"
873 @ MSG_SYM_TLSGETADDR_UU "__tls_get_addr"

875 @ MSG_SYM_L_END        "END_"
876 @ MSG_SYM_L_END_U      "_END_"
877 @ MSG_SYM_L_START       "START_"
878 @ MSG_SYM_L_START_U    "_START_"

880 # Support functions
882 @ MSG_SUP_VERSION      "ld_version"
883 @ MSG_SUP_INPUT_DONE    "ld_input_done"
885 @ MSG_SUP_START_64      "ld_start64"
886 @ MSG_SUP_ATEXIT_64     "ld_atexit64"
887 @ MSG_SUP_OPEN_64        "ld_open64"
888 @ MSG_SUP_FILE_64        "ld_file64"
889 @ MSG_SUP_INSEC_64      "ld_input_section64"
890 @ MSG_SUP_SEC_64        "ld_section64"
892 @ MSG_SUP_START         "ld_start"
893 @ MSG_SUP_ATEXIT        "ld_atexit"
894 @ MSG_SUP_OPEN          "ld_open"
895 @ MSG_SUP_FILE          "ld_file"
896 @ MSG_SUP_INSEC         "ld_input_section"
897 @ MSG_SUP_SEC           "ld_section"

899 #
900 # Message previously in 'ld'
901 #
902 #
903 @ _START_

905 # System error messages
907 @ MSG_SYS_STAT          "file %s: stat failed: %s"
908 @ MSG_SYS_READ          "file %s: read failed: %s"
909 @ MSG_SYS_NOTREG         "file %s: is not a regular file"

911 # Argument processing messages
913 @ MSG_ARG_DY_INCOMP     "%s option is incompatible with building a dynamic \
                           executable"
914 @ MSG_MARG_DY_INCOMP    "%s is incompatible with building a dynamic \
                           executable"
915 @ MSG_MARG_ST_INCOMP    "%s option is incompatible with building a static \
                           object (-dn, -r, --relocatable)"
916 @ MSG_ARG_ST_INCOMP     "%s is incompatible with building a static \
                           object"
917 @ MSG_MARG_ST_INCOMP    "%s is incompatible with building a static \
                           object"
918 @ MSG_MARG_ST_INCOMP    "%s is incompatible with building a static \
                           object"
919 @ MSG_MARG_ST_INCOMP    "%s is incompatible with building a static \
                           object"

```

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15

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920
921 @ MSG_MARG_ST_ONLYAVL          object (-dn, -r, --relocatable)"
922 @ MSG_ARG_INCOMP               "%s is only available when building a shared object"
923 @ MSG_MARG_INCOMP              "%s and %s are incompatible"
924 @ MSG_ARG_MTONCE               "%s and %s are incompatible"
925 @ MSG_MARG_MTONECE             "%option %s appears more than once, first setting taken"
926 @ MSG_ARG_ILLEGAL              "%s appears more than once, first setting taken"
927 @ MSG_ARG_YP                  "option -YP and -Y%c may not be specified concurrently"
928 @ MSG_ARG_STRIP                "%s is specified with %s; only debugging \
929                                         information stripped"
930 @ MSG_ARG_NOFILES              "'no files on input command line"
931 @ MSG_ARG_NOFLTR               "option %s is only meaningful when building a filter"
932 @ MSG_ARG_NODEFLIB              "the default library search path has been suppressed, \
933                                         but no runpaths have been specified via %s"
934 @ MSG_ARG_NOENTRY              "entry point symbol '%s' is undefined"
935 @ MSG_ARG_UNSUPPORTED           "option %s is no longer supported; ignored"
936 @ MSG_MARG_ONLY                 "option %s can only be used with a %s"
937 @ MSG_ARG_UNKNOWN               "unrecognized option '-%c'"
938 @ MSG_ARG_LONG_UNKNOWN          "unrecognized option '%s'"
939 @ MSG_ARG_USEHELP               "use the -z help option for usage information"

942 @ MSG_ARG_FLAGS                 "flags processing errors"
943 @ MSG_ARG_FILES                  "file processing errors. No output written to %s"
944 @ MSG_ARG_SYM_WARN               "symbol referencing errors"
945 @ MSG_ARG_SYM_FATAL              "symbol referencing errors. No output written to %s"
946 @ MSG_ARG_AR_GRP_OLEAP           "%s cannot be nested"
947 @ MSG_ARG_AR_GRP_BAD             "%s used without corresponding %s"

950 # Messages used to refer to options where there is more than
951 # one name accepted.

953 @ MSG_MARG_AR_GRPS              "archive rescan groups \
954                                         (-z rescan-start, -(, --start-group))"
955 @ MSG_MARG_AR_GRP_END             "archive rescan group end option \
956                                         (-z rescan-end, -), --end-group)"
957 @ MSG_MARG_AR_GRP_START            "archive rescan group start option \
958                                         (-z rescan-start, -(, --start-group))"
959 @ MSG_MARG_ENTRY                 "entry point option (-e, --entry)"
960 @ MSG_MARG_FILTER_AUX              "auxiliary filter option (-f, --auxiliary)"
961 @ MSG_MARG_FILTER                 "filter option (-F, --filter)"
962 @ MSG_MARG_OUTFILE                "output object option (-o, --output)"
963 @ MSG_MARG_REL                   "relocatable object option (-r, --relocatable)"
964 @ MSG_MARG_RPATH                 "runpath option (-R, -rpath)"
965 @ MSG_MARG_SO                     "shared object option (-G, -shared)"
966 @ MSG_MARG_SONAME                "soname option (-h, --soname)"
967 @ MSG_MARG_STRIP                 "strip option (-s, --strip-all)"

969 # Entrance criteria messages

971 @ MSG_ENT_MAP_FMT_TIL_1          "\t\t%s\n\n"
972 @ MSG_ENT_MAP_TITLE_1             "LINK EDITOR MEMORY MAP"

974 #
975 # TRANSLATION_NOTE -- Entry map header
976 #
977 # The next message is a format string for a title. The title is composed of
978 # two lines. In C locale, it would look like:
979 #
980 #      output      input      new
981 #      section     section    displacement   size
982 #
983 # The \t characters are used for alignment. (output section), (input section),
984 # and (new displacement) have to be aligned.
985 #

```

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1052 @ MSG_MAP_BADBNM
1053   "%s: %llu: basename cannot contain path \
1054     separator ('/'): %s"
1055   "%s: %llu: object name cannot contain path \
1056     separator ('/'): %s"
1057   "%s: %llu: redefining %s attribute for '%s'"
1058   "%s: %llu: premature EOF"
1059   "%s: %llu: malformed entry"
1060   "%s: %llu: %s not allowed on non-LOAD segments"
1061   "%s: %llu: %s not allowed on STACK segment"
1062   "%s: %llu: %s set more than once on same line"
1063   "%s: %llu: unterminated quoted string: %s"
1064   "%s: %llu: section within segment ordering done on \
1065     a non-existent segment '%s'"
1066   "%s: %llu: unnamed version cannot inherit from other \
1067     versions: %s"
1068 @ MSG_MAP_UNEXINHERIT
1069
1070 @ MSG_MAP_SEGEMUPLOAD
1071 @ MSG_MAP_SEGEMPEXE
1072
1073 @ MSG_MAP_SEGEMPATT
1074
1075 @ MSG_MAP_SEGEMPNOATT
1076
1077 @ MSG_MAP_SEGEMPSEC
1078
1079 @ MSG_MAP_SEGEMNOPERM
1080
1081 @ MSG_MAP_CNTADDRORDER
1082 @ MSG_MAP_CNTDISSEG
1083
1084 @ MSG_MAP_DUPNAMENT
1085 @ MSG_MAP_DUPNAMENT
1086 @ MSG_MAP_DUPORDSEG
1087 @ MSG_MAP_DUP_OS_ORD
1088 @ MSG_MAP_DUP_IS_ORD
1089
1090 @ MSG_MAP_UNKENT
1091
1092 @ MSG_MAP_UNKSEG
1093 @ MSG_MAP_UNKSYMDDEF
1094 @ MSG_MAP_UNKSEGTYP
1095 @ MSG_MAP_UNKSOTYP
1096 @ MSG_MAP_UNKSEGATT
1097 @ MSG_MAP_UNKSEGFLG
1098 @ MSG_MAP_UNKSECTYP
1099
1100 @ MSG_MAP_SEGSIZE
1101
1102 @ MSG_MAP_SEGADDR
1103 @ MSG_MAP_BADCAPVAL
1104 @ MSG_MAP_UNKCAPATTR
1105 @ MSG_MAP_EMPTYCAP
1106
1107 @ MSG_MAP_SYMDEF1
1108
1109 @ MSG_MAP_SYMDEF2
1110
1111 @ MSG_MAP_EXPSCOL
1112 @ MSG_MAP_EXPEQU
1113 @ MSG_MAP_EXPSEGATT
1114
1115 @ MSG_MAP_EXPSEGNAM
1116
1117 @ MSG_MAP_EXPSEGTYPE

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1118
1119 @ MSG_MAP_EXPSYM_1
1120 @ MSG_MAP_EXPSYM_2
1121 @ MSG_MAP_EXPSEC
1122 @ MSG_MAP_EXPSO
1123
1124 @ MSG_MAP_MULTFILTEE
1125 @ MSG_MAP_NOFILTER
1126 @ MSG_MAP_BADSFI
1127
1128 @ MSG_MAP_INADDR32SF1
1129
1130 @ MSG_MAP_NOINTPOSE
1131
1132 @ MSG_MAP_NOEXVLSZ
1133
1134 @ MSG_MAP_FLTR_ONLYAVL
1135
1136
1137 @ MSG_MAP_SEGSAME
1138
1139 @ MSG_MAP_EXCLIMIT
1140 @ MSG_MAP_NOBADFRM
1141
1142 @ MSG_MAP_SEGTYP
1143 @ MSG_MAP_SEGVADDR
1144 @ MSG_MAP_SEGPHTYS
1145 @ MSG_MAP_SEGLEN
1146 @ MSG_MAP_SEGFLAG
1147 @ MSG_MAP_SEGALIGN
1148 @ MSG_MAP_SEGROUND
1149
1150 @ MSG_MAP_SECTYP
1151 @ MSG_MAP_SECFLAG
1152 @ MSG_MAP_SECNANE
1153
1154 @ MSG_MAP_SYMVAL
1155 @ MSG_MAP_SYMSIZE
1156
1157 @ MSG_MAP_DIFF_SYMVAL
1158 @ MSG_MAP_DIFF_SYMSZ
1159 @ MSG_MAP_DIFF_SYMTYP
1160 @ MSG_MAP_DIFF_SYMNDX
1161 @ MSG_MAP_DIFF_SYMLCL
1162 @ MSG_MAP_DIFF_SYMGLOB
1163 @ MSG_MAP_DIFF_SYMPROT
1164 @ MSG_MAP_DIFF_SYMVER
1165 @ MSG_MAP_DIFF_SYMUL
1166 @ MSG_MAP_DIFF_SNGLDIR
1167
1168 @ MSG_MAP_DIFF_PROTNDIR
1169
1170
1171 @ MSG_MAP_SECORDER
1172 @ MSG_MAP_SECORDER
1173
1174
1175 # Mapfile Directives
1176
1177 @ MSG_MAP_EXP_ATTR
1178 @ MSG_MAP_EXP_CAPMASK
1179
1180 @ MSG_MAP_EXP_CAPNAME
1181
1182 @ MSG_MAP_EXP_CAPID
1183 @ MSG_MAP_EXP_CAPID

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1184 @ MSG_MAP_EXP_CAPHW    "%s: %llu: expected hardware capability, or \
1185                                terminator (';', ','): %s"
1186 @ MSG_MAP_EXP_CAPSF    "%s: %llu: expected software capability, or \
1187                                terminator (';', ','): %s"
1188 @ MSG_MAP_EXP_EQ        "%s: %llu: expected '=' following %s: %s"
1189 @ MSG_MAP_EXP_EQ_ALL    "%s: %llu: expected '=', '+=' or '-=' following %s: %s"
1190 @ MSG_MAP_EXP_EQ_PEQ    "%s: %llu: expected '=' following %s: %s"
1191 @ MSG_MAP_EXP_DIR       "%s: %llu: expected mapfile directive (%s): %s"
1192 @ MSG_MAP_SFLG_EXBANG   "%s: %llu: '!' appears without corresponding flag"
1193 @ MSG_MAP_EXP_FILNAM    "%s: %llu: expected file name following %s: %s"
1194 @ MSG_MAP_EXP_FILPATH   "%s: %llu: expected file path following %s: %s"
1195 @ MSG_MAP_EXP_INT       "%s: %llu: expected integer value following %s: %s"
1196 @ MSG_MAP_EXP_LBK7      "%s: %llu: expected '{' following %s: %s"
1197 @ MSG_MAP_EXP_OBJNAM    "%s: %llu: expected object name following %s: %s"
1198 @ MSG_MAP_SFLG_ONEBANG  "%s: %llu: '!' can only be specified once per flag"
1199 @ MSG_MAP_EXP_SECFLAG   "%s: %llu: expected section flag (%s), '!', or \
1200                                terminator (';', ','): %s"
1201 @ MSG_MAP_EXP_SECNAM    "%s: %llu: expected section name following %s: %s"
1202 @ MSG_MAP_EXP_SEGFLAG   "%s: %llu: expected segment flag (%s), or \
1203                                terminator (';', ','): %s"
1204 @ MSG_MAP_EXP_ECNAM     "%s: %llu: expected entrance criteria (ASSIGN_SECTION) \
1205                                name, or terminator (';', ','): %s"
1206 @ MSG_MAP_EXP_SEGNAM    "%s: %llu: expected segment name following %s: %s"
1207 @ MSG_MAP_EXP_SEM       "%s: %llu: expected ';' to terminate %s: %s"
1208 @ MSG_MAP_EXP_SEMLBKT   "%s: %llu: expected ';' or '{' following %s: %s"
1209 @ MSG_MAP_EXP_SEMRBKT   "%s: %llu: expected ';' or '}' to terminate %s: %s"
1210 @ MSG_MAP_EXP_SHTYPE    "%s: %llu: expected section type: %s"
1211 @ MSG_MAP_EXP_SYM       "%s: %llu: expected symbol name, symbol scope, \
1212                                or '*': %s"
1213 @ MSG_MAP_EXP_SYMEND   "%s: %llu: expected inherited version name, or \
1214                                terminator (';', ','): %s"
1215 @ MSG_MAP_EXP_SYMDELIM  "%s: %llu: expected one of ':', ',', or '{': %s"
1216 @ MSG_MAP_EXP_SYMFLAG   "%s: %llu: expected symbol flag (%s), or \
1217                                terminator (';', ','): %s"
1218 @ MSG_MAP_EXP_SYMNAME   "%s: %llu: expected symbol name following %s: %s"
1219 @ MSG_MAP_EXP_SYMSCOPE  "%s: %llu: expected symbol scope (%s): %s"
1220 @ MSG_MAP_EXP_SYMTYPE   "%s: %llu: expected symbol type (%s): %s"
1221 @ MSG_MAP_EXP_VERSION   "%s: %llu: expected version name following %s: %s"
1222 @ MSG_MAP_BADEXTRA     "%s: %llu: unexpected text found following %s directive"
1223 @ MSG_MAP_VALUELIMIT   "%s: %llu: numeric value exceeds word size: %s"
1224 @ MSG_MAP_MALVALUE     "%s: %llu: malformed numeric value: %s"
1225 @ MSG_MAP_BADVALUETAIL "%s: %llu: unexpected characters following numeric \
1226                                constant: %s"
1227 @ MSG_MAP_WSNEEDED     "%s: %llu: whitespace needed before token: %s"
1228 @ MSG_MAP_BADCHAR      "%s: %llu: unexpected text: %s"
1229 @ MSG_MAP_BADKQUOTE     "%s: %llu: mapfile keywords should not be quoted: %s"
1230 @ MSG_MAP_CDIR_NOTBOL  "%s: %llu: mapfile control directive not at start of \
1231                                line: %s"
1232 @ MSG_MAP_NOATTR       "%s: %llu: %s specified no attributes (empty {})"
1233 @ MSG_MAP_NOVALUES     "%s: %llu: %s specified without values"
1234 @ MSG_MAP_INTERR       "<internal error>"
1235 @ MSG_MAP_ISORDVER    "%s: %llu: version 0 mapfile ?O flag and version 1 \
1236                                segment IS_ORDER attribute are mutually exclusive: %s"
1237 @ MSG_MAP_SYMATTR     "%s: %llu: %s symbol attributes";

1239 # Mapfile Control Directives

1241 @ MSG_MAP_CDIR_BADVDIR "%s: %llu: $mapfile_version directive must specify \
1242                                version 2 or higher: %d"
1243 @ MSG_MAP_CDIR_BADVER  "%s: %llu: unknown mapfile version: %d"
1244 @ MSG_MAP_CDIR_REPVER  "%s: %llu: $mapfile_version must be first directive \
1245                                in file"
1246 @ MSG_MAP_CDIR_REQARG  "%s: %llu: %s directive requires an argument"
1247 @ MSG_MAP_CDIR_REQNOARG "%s: %llu: %s directive does not accept arguments"
1248 @ MSG_MAP_CDIR_BAD      "%s: %llu: unrecognized mapfile control directive"
1249 @ MSG_MAP_CDIR_NOIF     "%s: %llu: %s directive used without opening $if"

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1250 @ MSG_MAP_CDIR_ELSE    "%s: %llu: %s directive preceded by $else on line %d"
1251 @ MSG_MAP_CDIR_NOEND   "%s: %llu: EOF encountered without closing $endif \
1252                                for $if on line %d"
1253 @ MSG_MAP_CDIR_ERROR   "%s: %llu: error: %s"

1256 # Mapfile Conditional Expressions

1258 @ MSG_MAP_CEXP_TOKERR   "%s: %llu: syntax error in conditional expression at: %s"
1259 @ MSG_MAP_CEXP_SEMERR   "%s: %llu: malformed conditional expression"
1260 @ MSG_MAP_CEXP_BADOPUSE  "%s: %llu: invalid operator use in conditional \
1261                                expression"
1262 @ MSG_MAP_CEXP_UNBALPAR  "%s: %llu: unbalanced parenthesis in conditional \
1263                                expression"
1264 @ MSG_MAP_BADCESC     "%s: %llu: unrecognized escape in double quoted \
1265                                token: \\%c\\n"
1266 @ MSG_MAP_CEXP_SEMERR   "%s: %llu: malformed conditional expression"
1267 @ MSG_MAP_CEXP_TOKERR   "%s: %llu: syntax error in conditional expression at: %s"
1268 @ MSG_MAP_CEXP_SEMERR   "%s: %llu: malformed conditional expression"
1269 @ MSG_STR_NULL          "(null)"

1271 @ MSG_DBG_DFLT_FMT     "debug: "
1272 @ MSG_DBG_AOUT_FMT      "debug: a.out: "
1273 @ MSG_DBG_NAME_FMT      "debug: %s: "

1275 # -z assert-deflib strings

1277 @ MSG_ARG_ASSDEFLIB_MALFORMED  "library name malformed: %s"
1278 @ MSG_ARG_ASSDEFLIB_FOUND     "dynamic library found on default search path \
1279                                (%s): lib%s.so"
1280 @ MSG_ARG_ASSDEFLIB_MALFORMED  "library name malformed: %s"
1281 @ _END_

1284 # Software identification. Note, the SGU strings is historic, and has \
1285 # little relevance. It is preserved as applications have used this \
1286 # string to identify the Solaris link-editor.
1287 @ MSG_SGS_ID              "ld: Software Generation Utilities - \
1288                                Solaris Link Editors: "
1289 @ MSG_DBG_FOPEN_MODE      "w"
1290 @ MSG_DBG_CLS32_FMT       "32: "
1291 @ MSG_DBG_CLS64_FMT       "64: "
1292 @ MSG_STR_PATHTOK         ";::"
1293 @ MSG_STR_AOUT           "a.out"
1294 @ MSG_STR_LIB_A           "%s/lib%s.a"
1295 @ MSG_STR_LIB_SO          "%s/lib%s.so"
1296 @ MSG_STR_PATH             "%s/%s"
1297 @ MSG_STR_STRLN           "%s\n"
1298 @ MSG_STR_NL               "\n"
1299 @ MSG_STR_CAPGROUPID     "CAP_GROUP_%d"
1300 @ MSG_STR_LD_DYNAMIC     "dynamic"
1301 @ MSG_STR_SYMBOLIC       "symbolic"
1302 @ MSG_STR_ELIMINATE      "eliminate"
1303 @ MSG_STR_LOCAL           "local"
1304 @ MSG_STR_PROGBITS       "progbits"
1305 @ MSG_STR_SYMTAB          "symtab"

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1316 @ MSG_STR_DYNSYM      "dynsym"
1317 @ MSG_STR_REL          "rel"
1318 @ MSG_STR_RELA         "rela"
1319 @ MSG_STR_STRTAB       "strtab"
1320 @ MSG_STR_HASH         "hash"
1321 @ MSG_STR_LIB          "lib"
1322 @ MSG_STR_NOTE         "note"
1323 @ MSG_STR_NOBITS       "nobits"
1324 @ MSG_STR_HWCAP_1      "hwcap_1"
1325 @ MSG_STR_SFCAP_1      "sfcap_1"
1326 @ MSG_STR_SOEXT        ".so"

1328 @ MSG_STR_OPTIONS     "3:6:abc:d:e:f:h:i:l:mo:p:rstu:z:B:CD:F:GI:L:M:N:P:Q:R:\nS:VW:Y:?"
1329

1331 # Argument processing strings

1333 @ MSG_ARG_3            "-3"
1334 @ MSG_ARG_6            "-6"
1335 @ MSG_ARG_A            "-a"
1336 @ MSG_ARG_B            "-b"
1337 @ MSG_ARG_CB           "-B"
1338 @ MSG_ARG_BDIRECT      "-Bdirect"
1339 @ MSG_ARG_BDYNAMIC     "-Bdynamic"
1340 @ MSG_ARG_BEIMINATE    "-Beiminate"
1341 @ MSG_ARG_BGROUP        "-Bgroup"
1342 @ MSG_ARG_BLOCAL        "-Blocal"
1343 @ MSG_ARG_BNODIRECT    "-Bnodirect"
1344 @ MSG_ARG_BSMBOLIC     "-Bsymbolic"
1345 @ MSG_ARG_BTRANSLATOR   "-Btranslator"
1346 @ MSG_ARG_C             "-c"
1347 @ MSG_ARG_D             "-d"
1348 @ MSG_ARG_DY            "-dy"
1349 @ MSG_ARG_CI            "-I"
1350 @ MSG_ARG_CN            "-N"
1351 @ MSG_ARG_P             "-p"
1352 @ MSG_ARG_CP            "-P"
1353 @ MSG_ARG_QQ            "-Q"
1354 @ MSG_ARG_CY            "-Y"
1355 @ MSG_ARG_CYL           "-YL"
1356 @ MSG_ARG_CYP           "-YP"
1357 @ MSG_ARG_CYU           "-YU"
1358 @ MSG_ARG_Z             "-Z"
1359 @ MSG_ARG_ZDEFNODEF    "-[defs|nodefs]"
1360 @ MSG_ARG_ZASLR         "-zaslr"
1361 @ MSG_ARG_ZGUIDE        "-zguidance"
1362 @ MSG_ARG_ZNODEF        "-znodesf"
1363 @ MSG_ARG_ZNOINTERP     "-znointerp"
1364 @ MSG_ARG_ZRELAXRELOC   "-zrelaxreloc"
1365 @ MSG_ARG_ZNORELAXRELOC "-znorelaxreloc"
1366 @ MSG_ARG_ZTEXT         "-ztext"
1367 @ MSG_ARG_ZTEXTOFF      "-ztextoff"
1368 @ MSG_ARG_ZTEXTWARN     "-ztextwarn"
1369 @ MSG_ARG_ZTEXTTALL     "-z[text|textwarn|textoff]"
1370 @ MSG_ARG_ZLOADFLTR      "-zloadfltr"
1371 @ MSG_ARG_ZCOMBRELOC     "-zcombreloc"
1372 @ MSG_ARG_ZSYMBOLCAP    "-zsymbolcap"
1373 @ MSG_ARG_ZFATWNOFATW   "-z[fatal-warnings|nofatalwarnings]"

1375 @ MSG_ARG_ABSEXEC       "absexec"
1376 @ MSG_ARG_ALTEXEC64      "altexec64"
1377 @ MSG_ARG_ASLR           "aslr"
1378 @ MSG_ARG_NOCOMPSTRTAB   "nocompstrtab"
1379 @ MSG_ARG_GROUPPERM      "groupperm"
1380 @ MSG_ARG_NOGROUPPERM    "nogroupperm"
1381 @ MSG_ARG_LAZYLOAD       "lazyload"

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1382 @ MSG_ARG_NOLAZYLOAD   "nolazyload"
1383 @ MSG_ARG_INTERPOSE     "interpose"
1384 @ MSG_ARG_DIRECT        "direct"
1385 @ MSG_ARG_NODIRECT      "nodirect"
1386 @ MSG_ARG_IGNORE         "ignore"
1387 @ MSG_ARG_RECORD         "record"
1388 @ MSG_ARG_INITFIRST      "initfirst"
1389 @ MSG_ARG_INITARRAY      "initarray="
1390 @ MSG_ARG_FINIARRAY      "finiarray="
1391 @ MSG_ARG_PREINITARRAY    "preinitarray="
1392 @ MSG_ARG_RTLDINFO       "rtldinfo="
1393 @ MSG_ARG_DTRACE         "dtrace"
1394 @ MSG_ARG_TRANSLATOR     "translator"
1395 @ MSG_ARG_NOOPEN         "nodopen"
1396 @ MSG_ARG_NOW            "now"
1397 @ MSG_ARG_ORIGIN         "origin"
1398 @ MSG_ARG_DEFS           "defs"
1399 @ MSG_ARG_NODEFS         "nodefs"
1400 @ MSG_ARG_NODUMP         "nodump"
1401 @ MSG_ARG_NOVERSION      "noversion"
1402 @ MSG_ARG_TEXT           "text"
1403 @ MSG_ARG_TEXTOFF        "textoff"
1404 @ MSG_ARG_TEXTWARN        "textwarn"
1405 @ MSG_ARG_MULDEFS        "muldefs"
1406 @ MSG_ARG_NODELETE        "nodelete"
1407 @ MSG_ARG_NOINTERP       "nointerp"
1408 @ MSG_ARG_NOPARTIAL      "nopartial"
1409 @ MSG_ARG_NORELOC        "noreloc"
1410 @ MSG_ARG_REDLOCSYM      "redlocsym"
1411 @ MSG_ARG_VERBOSE         "verbose"
1412 @ MSG_ARG_WEAKEXT        "weakextract"
1413 @ MSG_ARG_LOADFLTR       "loadfltr"
1414 @ MSG_ARG_ALLEXTRT       "allextreat"
1415 @ MSG_ARG_DFLEXTRT       "defaultextract"
1416 @ MSG_ARG_COMBRELOC       "combreloc"
1417 @ MSG_ARG_NOCOMBRELOC     "nocombreloc"
1418 @ MSG_ARG_NODEFAULTLIB    "nodefaultlib"
1419 @ MSG_ARG_ENDFILTEE       "endfiltee"
1420 @ MSG_ARG_LD32           "ld32="
1421 @ MSG_ARG_LD64           "ld64="
1422 @ MSG_ARG_RESCAN          "rescan"
1423 @ MSG_ARG_RESCAN_NOW      "rescan-now"
1424 @ MSG_ARG_RESCAN_START    "rescan-start"
1425 @ MSG_ARG_RESCAN_END      "rescan-end"
1426 @ MSG_ARG_GUIDE          "guidance"
1427 @ MSG_ARG_NOLDYNSYM      "noldynsym"
1428 @ MSG_ARG_RELAXRELOC      "relaxreloc"
1429 @ MSG_ARG_NORELAXRELOC    "norelaxreloc"
1430 @ MSG_ARG_NOSIGHANDLER    "nosighandler"
1431 @ MSG_ARG_GLOBAUDIT      "globaudit"
1432 @ MSG_ARG_TARGET          "target="
1433 @ MSG_ARG_WRAP            "wrap"
1434 @ MSG_ARG_FATWARN         "fatal-warnings"
1435 @ MSG_ARG_NOFATWARN       "nofatal-warnings"
1436 @ MSG_ARG_HELP             "help"
1437 @ MSG_ARG_GROUP           "group"
1438 @ MSG_ARG_REDUCE          "reduce"
1439 @ MSG_ARG_STATIC           "static"
1440 @ MSG_ARG_SYMBOLCAP        "symbolcap"
1441 @ MSG_ARG_DEFERRED        "deferred"
1442 @ MSG_ARG_NODEFERRED      "nodeferred"
1443 @ MSG_ARG_ASSDEFLIB        "assert-deflib"
1445 @ MSG_ARG_LCOM             "L,"
1446 @ MSG_ARG_PCOM             "P,"
1447 @ MSG_ARG_UCOM             "U,"

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1449 @ MSG_ARG_T_RPATH      "rpath"
1450 @ MSG_ARG_T_SHARED      "shared"
1451 @ MSG_ARG_T SONAME      "soname"
1452 @ MSG_ARG_T_WL          "l,-"
1454 @ MSG_ARG_T_AUXFLTR     "-auxiliary"
1455 @ MSG_ARG_T_MULDEFS     "-allow-multiple-definition"
1456 @ MSG_ARG_T_INTERP      "-dynamic-linker"
1457 @ MSG_ARG_T_ENDGROUP    "-end-group"
1458 @ MSG_ARG_T_ENTRY        "-entry"
1459 @ MSG_ARG_T_STDFLTR     "-filter"
1460 @ MSG_ARG_T_FATWARN     "-fatal-warnings"
1461 @ MSG_ARG_T_NOFATWARN   "-no-fatal-warnings"
1462 @ MSG_ARG_T_HELP         "-help"
1463 @ MSG_ARG_T_LIBRARY      "-library"
1464 @ MSG_ARG_T_LIBPATH      "-library-path"
1465 @ MSG_ARG_T_NOUNDEF     "-no-undefined"
1466 @ MSG_ARG_T_NOWHOLEARC  "-no-whole-archive"
1467 @ MSG_ARG_T_OUTPUT       "-output"
1468 @ MSG_ARG_T_RELOCATABLE  "-relocatable"
1469 @ MSG_ARG_T_STARTGROUP   "-start-group"
1470 @ MSG_ARG_T_STRIP        "-strip-all"
1471 @ MSG_ARG_T_UNDEF        "-undefined"
1472 @ MSG_ARG_T_VERSION      "-version"
1473 @ MSG_ARG_T_WHOLEARC    "-whole-archive"
1474 @ MSG_ARG_T_WRAP         "-wrap"
1475 @ MSG_ARG_T_OPAR         "("
1476 @ MSG_ARG_T_CPAR         ")"
1478 @ MSG_ARG_ENABLED        "enabled"
1479 @ MSG_ARG_DISABLED       "disabled"
1480 @ MSG_ARG_ENABLE         "enable"
1481 @ MSG_ARG_DISABLE        "disable"
1482 #endif /* ! codereview */
1484 # -z guidance-item strings
1485 @ MSG_ARG_GUIDE_DELIM    ",,: \t"
1486 @ MSG_ARG_GUIDE_NO_ALL    "noall"
1487 @ MSG_ARG_GUIDE_NO_DEFS   "nodefs"
1488 @ MSG_ARG_GUIDE_NO_DIRECT "nodirect"
1489 @ MSG_ARG_GUIDE_NO_LAZYLOAD "nolazyload"
1490 @ MSG_ARG_GUIDE_NO_MAPFILE "nomapfile"
1491 @ MSG_ARG_GUIDE_NO_TEXT   "notext"
1492 @ MSG_ARG_GUIDE_NO_UNUSED "nounused"
1494 # Environment variable strings
1496 @ MSG_LD_RUN_PATH        "LD_RUN_PATH"
1497 @ MSG_LD_LIBPATH_32       "LD_LIBRARY_PATH_32"
1498 @ MSG_LD_LIBPATH_64       "LD_LIBRARY_PATH_64"
1499 @ MSG_LD_LIBPATH          "LD_LIBRARY_PATH"
1501 @ MSG_LD_NOVERSION_32     "LD_NOVERSION_32"
1502 @ MSG_LD_NOVERSION_64     "LD_NOVERSION_64"
1503 @ MSG_LD_NOVERSION       "LD_NOVERSION"
1505 @ MSG_SGS_SUPPORT_32      "SGS_SUPPORT_32"
1506 @ MSG_SGS_SUPPORT_64      "SGS_SUPPORT_64"
1507 @ MSG_SGS_SUPPORT        "SGS_SUPPORT"
1510 # Symbol names
1512 @ MSG_SYM_LIBVER_U        "_lib_version"

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1515 # Mapfile tokens
1517 @ MSG_MAP_LOAD           "load"
1518 @ MSG_MAP_NOTE            "note"
1519 @ MSG_MAP_NULL             "null"
1520 @ MSG_MAP_STACK            "stack"
1521 @ MSG_MAP_ADDVERS          "addvers"
1522 @ MSG_MAP_FUNCTION          "function"
1523 @ MSG_MAP_DATA              "data"
1524 @ MSG_MAP_COMMON             "common"
1525 @ MSG_MAP_PARENT             "parent"
1526 @ MSG_MAP_EXTERN             "extern"
1527 @ MSG_MAP_DIRECT             "direct"
1528 @ MSG_MAP_NODIRECT          "nodirect"
1529 @ MSG_MAP_FILTER             "filter"
1530 @ MSG_MAP_AUXILIARY          "auxiliary"
1531 @ MSG_MAP_OVERRIDE             "override"
1532 @ MSG_MAP_INTERPOSE          "interpose"
1533 @ MSG_MAP_DYNSORT             "dyncsort"
1534 @ MSG_MAP_NODYNSORT          "nodyn sort"
1536 @ MSG_MAPKW_ALIGN             "ALIGN"
1537 @ MSG_MAPKW_ALLOC             "ALLOC"
1538 @ MSG_MAPKW_ALLOW             "ALLOW"
1539 @ MSG_MAPKW_AMD64_LARGE          "AMD64_LARGE"
1540 @ MSG_MAPKW_ASSIGN_SECTION        "ASSIGN_SECTION"
1541 @ MSG_MAPKW_AUX                "AUXILIARY"
1542 @ MSG_MAPKW_CAPABILITY          "CAPABILITY"
1543 @ MSG_MAPKW_COMMON             "COMMON"
1544 @ MSG_MAPKW_DATA                "DATA"
1545 @ MSG_MAPKW_DEFAULT             "DEFAULT"
1546 @ MSG_MAPKW_DEPEND VERSIONS      "DEPEND VERSIONS"
1547 @ MSG_MAPKW_DIRECT             "DIRECT"
1548 @ MSG_MAPKW_DISABLE             "DISABLE"
1549 @ MSG_MAPKW_DYN SORT          "DYN SORT"
1550 @ MSG_MAPKW_ELIMINATE          "ELIMINATE"
1551 @ MSG_MAPKW_EXECUTE             "EXECUTE"
1552 @ MSG_MAPKW_EXPORTED            "EXPORTED"
1553 @ MSG_MAPKW_EXTERN              "EXTERN"
1554 @ MSG_MAPKW_FILTER             "FILTER"
1555 @ MSG_MAPKW_FILE_BASENAME        "FILE_BASENAME"
1556 @ MSG_MAPKW_FILE_PATH             "FILE_PATH"
1557 @ MSG_MAPKW_FILE_OBJNAME          "FILE_OBJNAME"
1558 @ MSG_MAPKW_FUNCTION             "FUNCTION"
1559 @ MSG_MAPKW_FLAGS               "FLAGS"
1560 @ MSG_MAPKW_GLOBAL              "GLOBAL"
1561 @ MSG_MAPKW_INTERPOSE            "INTERPOSE"
1562 @ MSG_MAPKW_HIDDEN               "HIDDEN"
1563 @ MSG_MAPKW_HDR_NOALLOC          "HDR_NOALLOC"
1564 @ MSG_MAPKW_HW                  "HW"
1565 @ MSG_MAPKW_HW_1                 "HW_1"
1566 @ MSG_MAPKW_HW_2                 "HW_2"
1567 @ MSG_MAPKW_IS_NAME              "IS_NAME"
1568 @ MSG_MAPKW_IS_ORDER             "IS_ORDER"
1569 @ MSG_MAPKW_LOAD_SEGMENT          "LOAD_SEGMENT"
1570 @ MSG_MAPKW_LOCAL                "LOCAL"
1571 @ MSG_MAPKW_MACHINE              "MACHINE"
1572 @ MSG_MAPKW_MAX_SIZE             "MAX_SIZE"
1573 @ MSG_MAPKW_NOHDR               "NOHDR"
1574 @ MSG_MAPKW_NODIRECT             "NODIRECT"
1575 @ MSG_MAPKW_NODYNSORT            "NODYNSORT"
1576 @ MSG_MAPKW_NOTE_SEGMENT          "NOTE_SEGMENT"
1577 @ MSG_MAPKW_NULL_SEGMENT          "NULL_SEGMENT"
1578 @ MSG_MAPKW_OS_ORDER             "OS_ORDER"
1579 @ MSG_MAPKW_PADDR                "PADDR"

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```
1580 @ MSG_MAPKW_PARENT          "PARENT"
1581 @ MSG_MAPKW_PHDR_ADD_NULL   "PHDR_ADD_NULL"
1582 @ MSG_MAPKW_PLATFORM        "PLATFORM"
1583 @ MSG_MAPKW_PROTECTED      "PROTECTED"
1584 @ MSG_MAPKW_READ            "READ"
1585 @ MSG_MAPKW_ROUND           "ROUND"
1586 @ MSG_MAPKW_REQUIRE         "REQUIRE"
1587 @ MSG_MAPKW_SEGMENT_ORDER   "SEGMENT_ORDER"
1588 @ MSG_MAPKW_SF               "SF"
1589 @ MSG_MAPKW_SF_1             "SF_1"
1590 @ MSG_MAPKW_SINGLETON       "SINGLETON"
1591 @ MSG_MAPKW_SIZE             "SIZE"
1592 @ MSG_MAPKW_SIZE_SYMBOL     "SIZE_SYMBOL"
1593 @ MSG_MAPKW_STACK            "STACK"
1594 @ MSG_MAPKW_SYMBOL_SCOPE    "SYMBOL_SCOPE"
1595 @ MSG_MAPKW_SYMBOL_VERSION  "SYMBOL_VERSION"
1596 @ MSG_MAPKW_SYMBOLIC        "SYMBOLIC"
1597 @ MSG_MAPKW_TYPE             "TYPE"
1598 @ MSG_MAPKW_VADDR           "VADDR"
1599 @ MSG_MAPKW_VALUE            "VALUE"
1600 @ MSG_MAPKW_WRITE           "WRITE"

1603 @ MSG_STR_DTRACE           "PT_SUNWDTRACE"
```

```
*****
88579 Fri Nov 18 16:39:50 2016
new/usr/src/cmd/sgs/packages/common/SUNWORLD-README
7594 1d -zaslr should accept Solaris-compatible values
*****
1 #
2 # Copyright (c) 1996, 2010, Oracle and/or its affiliates. All rights reserved.
3 #
4 # CDDL HEADER START
5 #
6 # The contents of this file are subject to the terms of the
7 # Common Development and Distribution License (the "License").
8 # You may not use this file except in compliance with the License.
9 #
10 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
11 # or http://www.opensolaris.org/os/licensing.
12 # See the License for the specific language governing permissions
13 # and limitations under the License.
14 #
15 # When distributing Covered Code, include this CDDL HEADER in each
16 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
17 # If applicable, add the following below this CDDL HEADER, with the
18 # fields enclosed by brackets "[]" replaced with your own identifying
19 # information: Portions Copyright [yyyy] [name of copyright owner]
20 #
21 # CDDL HEADER END
22 #
23 # Note: The contents of this file are used to determine the versioning
24 # information for the SGS toolset. The number of CRs listed in
25 # this file must grow monotonically, or the SGS version will
26 # move backwards, causing a great deal of confusion. As such,
27 # CRs must never be removed from this file. See
28 # libconv/common/bld_vernote.ksh, and bug#4519569 for more
29 # details on SGS versioning.
30 #
31 -----
32 SUNWORLD - link-editors development package.
33 -----
35 The SUNWORLD package is an internal development package containing the
36 link-editors and some related tools. All components live in the OSNET
37 source base, but not all components are delivered as part of the normal
38 OSNET consolidation. The intent of this package is to provide access
39 to new features/bugfixes before they become generally available.
41 General link-editor information can be found:
43   http://linkers.central/
44   http://linkers.sfbay/      (also known as linkers.eng)
46 Comments and Questions:
48   Contact Rod Evans, Ali Bahrami, and/or Seizo Sakurai.
50 Warnings:
52   The postremove script for this package employs /usr/sbin/static/mv,
53   and thus, besides the common core dependencies, this package also
54   has a dependency on the SUNWsutl package.
56 Patches:
58   If the patch has been made official, you'll find it in:
60     http://sunsolve.east/cgi/show.pl?target=patches/os-patches
```

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62   If it hasn't been released, the patch will be in:
64     /net/sunsoftpatch/patches/temporary
66   Note, any patches logged here refer to the temporary ("T") name, as we
67   never know when they're made official, and although we try to keep all
68   patch information up-to-date the real status of any patch can be
69   determined from:
71     http://sunsoftpatch.eng
73   If it has been obsoleted, the patch will be in:
74     /net/on${RELEASE}-patch/on${RELEASE}/patches/${MACH}/obsolete
78 History:
80   Note, starting after Solaris 10, letter codes in parenthesis may
81   be found following the bug synopsis. Their meanings are as follows:
83     (D) A documentation change accompanies the implementation change.
84     (P) A packaging change accompanies the implementation change.
86   In all cases, see the implementation bug report for details.
88   The following bug fixes exist in the OSNET consolidation workspace
89   from which this package is created:
91 -----
92 Solaris 8
93 -----
94 Bugid    Risk Synopsis
95 -----
96 4225937 i386 linker emits sparc specific warning messages
97 4215164 shf_order flag handling broken by fix for 4194028.
98 4215587 using ld and the -r option on solaris 7 with compiler option -xarch=v9
99 causes link errors.
100 4234657 103627-08 breaks purify 4.2 (plt padding should not be enabled for
101   32-bit)
102 4235241 dbx no longer gets dlclose notification.
103 -----
104 All the above changes are incorporated in the following patches:
105   Solaris/SunOS 5.7_sparc      patch 106950-05 (never released)
106   Solaris/SunOS 5.7_x86       patch 106951-05 (never released)
107   Solaris/SunOS 5.6_sparc      patch 107733-02 (never released)
108   Solaris/SunOS 5.6_x86       patch 107734-02
109 -----
110 4242890 inetd dumps core upon bootup - failure in dlclose() logic.
111 4238071 dlopen() leaks while descriptors under low memory conditions
112 -----
113 All the above changes are incorporated in the following patches:
114   Solaris/SunOS 5.7_sparc      patch 106950-06
115   Solaris/SunOS 5.7_x86       patch 106951-06
116   Solaris/SunOS 5.6_sparc      patch 107733-03 (never released)
117   Solaris/SunOS 5.6_x86       patch 107734-03
118 -----
119 4267980 INITFIRST flag of the shard object could be ignored.
120 -----
121 All the above changes plus:
122   4238973 fix for 4121152 affects linking of Ada objects
123   4158744 patch 103627-02 causes core when RPATH has blank entry and
124   dlopen/dlclose is used
125 are incorporated in the following patches:
126   Solaris/SunOS 5.5.1_sparc      patch 103627-12 (never released)
127   Solaris/SunOS 5.5.1_x86       patch 103628-11
```

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128 -----
129 4256518 miscalculated calloc() during dlclose/tsorting can result in segv
130 4254171 DT_SPARC_REGISTER has invalid value associated with it.
131 -----
132 All the above changes are incorporated in the following patches:
133   Solaris/SunOS 5.7_sparc      patch 106950-07
134   Solaris/SunOS 5.7_x86       patch 106951-07
135   Solaris/SunOS 5.6_sparc      patch 107733-04 (never released)
136   Solaris/SunOS 5.6_x86       patch 107734-04
137 -----
138 4293159 ld needs to combine sections with and without SHF_ORDERED flag(comdat)
139 4292238 linking a library which has a static char ptr invokes mprotect() call
140 -----
141 All the above changes except for:
142   4256518 miscalculated calloc() during dlcose/tsorting can result in segv
143   4254171 DT_SPARC_REGISTER has invalid value associated with it.
144 plus:
145   4238973 fix for 4121152 affects linking of Ada objects
146   4158744 patch 103627-02 causes core when RPATH has blank entry and
147     dlopen/dlcose is used
148 are incorporated in the following patches:
149   Solaris/SunOS 5.5.1_sparc      patch 103627-13
150   Solaris/SunOS 5.5.1_x86       patch 103628-12
151 -----
152 All the above changes are incorporated in the following patches:
153   Solaris/SunOS 5.7_sparc      patch 106950-08
154   Solaris/SunOS 5.7_x86       patch 106951-08
155   Solaris/SunOS 5.6_sparc      patch 107733-05
156   Solaris/SunOS 5.6_x86       patch 107734-05
157 -----
158 4295613 COMMON symbol resolution can be incorrect
159 -----
160 All the above changes plus:
161   4238973 fix for 4121152 affects linking of Ada objects
162   4158744 patch 103627-02 causes core when RPATH has blank entry and
163     dlopen/dlcose is used
164 are incorporated in the following patches:
165   Solaris/SunOS 5.5.1_sparc      patch 103627-14
166   Solaris/SunOS 5.5.1_x86       patch 103628-13
167 -----
168 All the above changes plus:
169   4351197 nfs performance problem by 103627-13
170 are incorporated in the following patches:
171   Solaris/SunOS 5.5.1_sparc      patch 103627-15
172   Solaris/SunOS 5.5.1_x86       patch 103628-14
173 -----
174 All the above changes are incorporated in the following patches:
175   Solaris/SunOS 5.7_sparc      patch 106950-09
176   Solaris/SunOS 5.7_x86       patch 106951-09
177   Solaris/SunOS 5.6_sparc      patch 107733-06
178   Solaris/SunOS 5.6_x86       patch 107734-06
179 -----
180 4158971 increase the default segment alignment for i386 to 64k
181 4064994 Add an $ISALIST token to those understood by the dynamic linker
182 xxxxxxxx ia64 common code putback
183 4239308 LD_DEBUG busted for sparc machines
184 4239008 Support MAP_ANON
185 4238494 link-auditing extensions required
186 4232239 R_SPARC_LOX10 truncates field
187 4231722 R_SPARC_UA* relocations are busted
188 4235514 R_SPARC_OLO10 relocation fails
189 4244025 sgsmsg update
190 4239281 need to support SECREL relocations for ia64
191 4253751 ia64 linker must support PT_IA_64_UNWIND tables
192 4259254 dllopen mistakenly closes fd 0 (stdin) under certain error conditions
193 4260872 libelf hangs when libthread present

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194 4224569 linker core dumping when profiling specified
195 4270937 need mechanism to suppress ld.so.1's use of a default search path
196 1050476 ld.so to permit configuration of search_path
197 4273654 filtee processing using $ISALIST could be optimized
198 4271860 get MERCED cruft out of elf.h
199 4248991 Dynamic loader (via PLT) corrupts register G4
200 4275754 cannot mmap file: Resource temporarily unavailable
201 4277689 The linker can not handle relocation against MOVE tabl
202 4270766 atexit processing required on dlcose().
203 4279229 Add a "release" token to those understood by the dynamic linker
204 4215433 ld can bus error when insufficient disc space exists for output file
205 4285571 Pssst, want some free disk space? ld's miscalculating.
206 4286236 ar gives confusing "bad format" error with a null .stab section
207 4286838 ld.so.1 can't handle a no-bits segment
208 4287364 ld.so.1 runtime configuration cleanup
209 4289573 disable linking of ia64 binaries for Solaris8
210 4293966 crle(1)'s default directories should be supplied
211 -----
213 -----
214 Solaris 8 600 (1st Q-update - s28u1)
215 -----
216 Bugid Risk Synopsis
217 =====
218 4309212 dlsym can't find symbol
219 4311226 rejection of preloading in secure apps is inconsistent
220 4312449 dlcose: invalid deletion of dependency can occur using RTLD_GLOBAL
221 -----
222 All the above changes are incorporated in the following patches:
223   Solaris/SunOS 5.8_sparc      patch 109147-01
224   Solaris/SunOS 5.8_x86       patch 109148-01
225   Solaris/SunOS 5.7_sparc      patch 106950-10
226   Solaris/SunOS 5.7_x86       patch 106951-10
227   Solaris/SunOS 5.6_sparc      patch 107733-07
228   Solaris/SunOS 5.6_x86       patch 107734-07
229 -----
231 -----
232 Solaris 8 900 (2nd Q-update - s28u2)
233 -----
234 Bugid Risk Synopsis
235 =====
236 4324775 non-PIC code & -zcombreloc don't mix very well...
237 4327653 run-time linker should preload tables it will process (madvise)
238 4324324 shared object code can be referenced before .init has fired
239 4321634 .init firing of multiple INITFIRST objects can fail
240 -----
241 All the above changes are incorporated in the following patches:
242   Solaris/SunOS 5.8_sparc      patch 109147-03
243   Solaris/SunOS 5.8_x86       patch 109148-03
244   Solaris/SunOS 5.7_sparc      patch 106950-11
245   Solaris/SunOS 5.7_x86       patch 106951-11
246   Solaris/SunOS 5.6_sparc      patch 107733-08
247   Solaris/SunOS 5.6_x86       patch 107734-08
248 -----
249 4338812 crle(1) omits entries in the directory cache
250 4341496 RFE: provide a static version of /usr/bin/crle
251 4340878 rtld should treat $ORIGIN like LD_LIBRARY_PATH in security issues
252 -----
253 All the above changes are incorporated in the following patches:
254   Solaris/SunOS 5.8_sparc      patch 109147-04
255   Solaris/SunOS 5.8_x86       patch 109148-04
256   Solaris/SunOS 5.7_sparc      patch 106950-12
257   Solaris/SunOS 5.7_x86       patch 106951-12
258 -----
259 4349563 auxiliary filter error handling regression introduced in 4165487

```

260 4355795 ldd -r now gives "displacement relocated" warnings
 261 -----
 262 All the above changes are incorporated in the following patches:
 263 Solaris/SunOS 5.7_sparc patch 106950-13
 264 Solaris/SunOS 5.7_x86 patch 106951-13
 265 Solaris/SunOS 5.6_sparc patch 107733-09
 266 Solaris/SunOS 5.6_x86 patch 107734-09
 267 -----
 268 4210412 versioning a static executable causes ld to core dump
 269 4219652 Linker gives misleading error about not finding main (xarch=v9)
 270 4103449 ld command needs a command line flag to force 64-bits
 271 4187211 problem with RDISP32 linking in copy-relocated objects
 272 4287274 dladdr, dlinfo do not provide the full path name of a shared object
 273 4297563 dlclose still does not remove all objects.
 274 4250694 rtld_db needs a new auxvec entry
 275 4235315 new features for rtld_db (DT_CHECKSUM, dynamic linked .o files
 276 4303609 64bit libelf.so.1 does not properly implement elf_hash()
 277 4310901 su.static fails when OSNet build with lazy-loading
 278 4310324 elf_errno() causes Bus Error(coredump) in 64-bit multithreaded programs
 279 4306415 ld core dump
 280 4316531 BCP: possible failure with dlclose/_preeexec_exit_handlers
 281 4313765 LD_BREADTH should be shot
 282 4318162 crle uses automatic strings in putenv.
 283 4255943 Description of -t option incomplete.
 284 4322528 sgs message test infrastructure needs improvement
 285 4239213 Want an API to obtain linker's search path
 286 4324134 use of extern mapfile directives can contribute unused symbols
 287 4322581 ELF data structures could be layed out more efficiently...
 288 4040628 Unnecessary section header symbols should be removed from .dynsym
 289 4300018 rtld: bindlock should be freed before calling call_fini()
 290 4336102 dlclose with non-deletable objects can mishandle dependencies
 291 4329785 mixing of SHT_SUNW_COMDAT & SHF_ORDERED causes ld to seg fault
 292 4334617 COPY relocations should be produces for references to .bss symbols
 293 4248250 relcoation of local ABS symbols incorrect
 294 4335801 For complimentary alignments eliminate ld: warning: symbol 'll'
 295 has differing a
 296 4336980 ld.so.1 relative path processing revisited
 297 4243097 dlerror(3DL) is not affected by setlocale(3C).
 298 4344528 dump should remove -D and -l usage message
 299 xxxxxxxx enable LD_ALTEXEC to access alternate link-editor
 300 -----
 301 All the above changes are incorporated in the following patches:
 302 Solaris/SunOS 5.8_sparc patch 109147-06
 303 Solaris/SunOS 5.8_x86 patch 109148-06
 304 -----
 306 -----
 307 Solaris 8 101 (3rd Q-update - s28u3)
 308 -----
 309 Bugid Risk Synopsis
 310 ======
 311 4346144 link-auditing: plt_tracing fails if LA_SYMB_NOPLTENTER given after
 312 being bound
 313 4346001 The ld should support mapfile syntax to generate PT_SUNWSTACK segment
 314 4349137 rtld_db: A third fallback method for locating the linkmap
 315 4343417 dladdr interface information inadequate
 316 4343801 RFE: crle(1): provide option for updating configuration files
 317 4346615 ld.so.1 attempting to open a directory gives: No such device
 318 4352233 crle should not honor umask
 319 4352330 LD_PRELOAD cannot use absolute path for privileged program
 320 4357805 RFE: man page for ld(1) does not document all -z or -B options in
 321 Solaris 8 9/00
 322 4358751 ld.so.1: LD_XXX environ variables and LD_FLAGS should be synchronized.
 323 4358862 link editors should reference "64" symlinks instead of sparcv9 (ia64).
 324 4356879 PLTs could use faster code sequences in some cases
 325 4367118 new fast baptl's fail when traversed twice in threaded application

326 4366905 Need a way to determine path to a shared library
 327 4351197 nfs performance problem by 103627-13
 328 4367405 LD_LIBRARY_PATH_64 not being used
 329 4354500 SHF_ORDERED ordered sections does not properly sort sections
 330 4369068 ld(1)'s weak symbol processing is inefficient (slow and doesn't scale).
 331 -----
 332 All the above changes are incorporated in the following patches:
 333 Solaris/SunOS 5.8_sparc patch 109147-07
 334 Solaris/SunOS 5.8_x86 patch 109148-07
 335 Solaris/SunOS 5.7_sparc patch 106950-14
 336 Solaris/SunOS 5.7_x86 patch 106951-14
 337 -----
 339 -----
 340 Solaris 8 701 (5th Q-update - s28u5)
 341 -----
 342 Bugid Risk Synopsis
 343 ======
 344 4368846 ld(1) fails to version some interfaces given in a mapfile
 345 4077245 dump core dump on null pointer.
 346 4372554 elfdump should demangle symbols (like nm, dump)
 347 4371114 dlclose may unmap a promiscuous object while it's still in use.
 348 4204447 elfdump should understand SHN_AFTER/SHN_BEGIN macro
 349 4377941 initialization of interposers may not occur
 350 4381116 ldd/ld.so.1 could aid in detecting unused dependencies
 351 4381783 dlopen/dlclose of a libCrn+libthread can dump core
 352 4385402 linker & run-time linker must support gABI ELF updates
 353 4394698 ld.so.1 does not process DF_SYMBOLIC - not gABI conforming
 354 4394212 the link editor quietly ignores missing support libraries
 355 4390308 ld.so.1 should provide more flexibility LD_PRELOAD'ing 32-bit/64-bit
 356 objects
 357 4401232 crle(1) could provide better flexibility for alternatives
 358 4401815 fix misc nits in debugging output...
 359 4402861 cleanup /usr/demo/link_audit & /usr/tmp/librtld_db demo source code...
 360 4393044 elfdump should allow raw dumping of sections
 361 4413168 SHF_ORDERED bit causes linker to generate a separate section
 362 -----
 363 All the above changes are incorporated in the following patches:
 364 Solaris/SunOS 5.8_sparc patch 109147-08
 365 Solaris/SunOS 5.8_x86 patch 109148-08
 366 -----
 367 4452202 Typos in <sys/link.h>
 368 4452220 dump doesn't support RUNPATH
 369 -----
 370 All the above changes are incorporated in the following patches:
 371 Solaris/SunOS 5.8_sparc patch 109147-09
 372 Solaris/SunOS 5.8_x86 patch 109148-09
 373 -----
 375 -----
 376 Solaris 8 1001 (6th Q-update - s28u6)
 377 -----
 378 Bugid Risk Synopsis
 379 ======
 380 4421842 fixups in SHT_GROUP processing required...
 381 4450433 problem with libliddbg output on -Dsection,detail when
 382 processing SHF_LINK_ORDER
 383 -----
 384 All the above changes are incorporated in the following patches:
 385 Solaris/SunOS 5.8_sparc patch 109147-10
 386 Solaris/SunOS 5.8_x86 patch 109148-10
 387 Solaris/SunOS 5.7_sparc patch 106950-15
 388 Solaris/SunOS 5.7_x86 patch 106951-15
 389 -----
 390 4463473 pldd showing wrong output
 391 -----

392 All the above changes are incorporated in the following patches:
 393 Solaris/SunOS 5.8_sparc patch 109147-11
 394 Solaris/SunOS 5.8_x86 patch 109148-11
 395 -----
 397 -----
 398 Solaris 8 202 (7th Q-update - s28u7)
 399 -----
 400 Bugid Risk Synopsis
 401 ======
 402 4488954 ld.so.1 reuses same buffer to send unmapping range to
 _preexec_exit_handlers()
 404 -----
 405 All the above changes are incorporated in the following patches:
 406 Solaris/SunOS 5.8_sparc patch 109147-12
 407 Solaris/SunOS 5.8_x86 patch 109148-12
 408 -----
 410 -----
 411 Solaris 9
 412 -----
 413 Bugid Risk Synopsis
 414 ======
 415 4505289 incorrect handling of _START_ and _END_
 416 4506164 mcs does not recognize #linkbefore or #linkafter qualifiers
 417 4447560 strip is creating unexecutable files...
 418 4513842 library names not in ld.so string pool cause corefile bugs
 419 -----
 420 All the above changes are incorporated in the following patches:
 421 Solaris/SunOS 5.8_sparc patch 109147-13
 422 Solaris/SunOS 5.8_x86 patch 109148-13
 423 Solaris/SunOS 5.7_sparc patch 106950-16
 424 Solaris/SunOS 5.7_x86 patch 106951-16
 425 -----
 426 4291384 ld -M with a mapfile does not properly align Fortran REAL*8 data
 427 4413322 SunOS 5.9 librtld_db doesn't show dlopened ".." files anymore?
 428 4429371 librtld_db busted on ia32 with SC6.x compilers...
 429 4418274 elfdump dumps core on invalid input
 430 4432224 libelf xlate routines are out of date
 431 4433643 Memory leak using dlopen()/dlclose() in Solaris 8
 432 4446564 ldd/lddstub - core dump conditions
 433 4446115 translating SUNW_move sections is broken
 434 4450225 The rdb command can fall into an infinite loop
 435 4448531 Linker Causes Segmentation Fault
 436 4453241 Regression in 4291384 can result in empty symbol table.
 437 4453398 invalid runpath token can cause ld to spin.
 438 4460230 ld (for OS 5.8 and 5.9) loses error message
 439 4462245 ld.so.1 core dumps when executed directly...
 440 4455802 need more flexibility in establishing a support library for ld
 441 4467068 dyn_plt_entsize not properly initialized in ld.so.1
 442 4468779 elf_plt_trace_write() broken on i386 (link-auditing)
 443 4465871 -zld32 and -zld64 does not work the way it should
 444 4461890 bad shared object created with -zredlocsym
 445 4469400 ld.so.1: is_so_loaded isn't as efficient as we thought...
 446 4469566 lazy loading fallback can reference un-relocated objects
 447 4470493 libelf incorrectly translates NOTE sections accross architectures...
 448 4469684 rtld leaks dl_handles and permits on dlopen/dlclose
 449 4475174 ld.so.1 prematurely reports the failure to load a object...
 450 4475514 ld.so.1 can core dump in memory allocation fails (no swap)
 451 4481851 Setting ld.so.1 environment variables globally would be useful
 452 4482035 setting LD_PROFILE & LD_AUDIT causes ping command to issue warnings
 453 on 5.8
 454 4377735 segment reservations cause sbrk() to fail
 455 4491434 ld.so.1 can leak file-descriptors when loading same named objects
 456 4289232 some of warning/error/debugging messages from libld.so can be revised
 457 4462748 Linker Portion of TLS Support

458 4496718 run-time linkers mutex_locks not working with ld libc interface
 459 4497270 The -zredlocsym option should not eliminate partially initialized local
 460 symbols
 461 4496963 dumping an object with crle(1) that uses \$ORIGIN can lose its
 462 dependencies
 463 4499413 Sun linker orders of magnitude slower than gnu linker
 464 4461760 lazy loading libXm and libXt can fail.
 465 4469031 The partial initialized (local) symbols for intel platform is not
 466 working.
 467 4492883 Add link-editor option to multi-pass archives to resolve unsatisfied
 468 symbols
 469 4503731 linker-related commands misspell "argument"
 470 4503768 whocalls(1) should output messages to stderr, not stdout
 471 4503748 whocalls(1) usage message and manpage could be improved
 472 4503625 nm should be taught about TLS symbols - that they aren't allowed that is
 473 4300120 segment address validation is too simplistic to handle segment
 474 reservations
 475 4404547 krtld/reloc.h could have better error message, has typos
 476 4270931 R_SPARC_HIX22 relocation is not handled properly
 477 4485320 ld needs to support more the 32768 PLTs
 478 4516434 sotruss can not watch libc_psr.so.1
 479 4213100 sotruss could use more flexible pattern matching
 480 4503457 ld seg fault with comdat
 481 4510264 sections with SHF_TLS can come in different orders...
 482 4501807 link-editor support library unable to modify section header flags
 483 4515913 ld.so.1 can incorrectly decrement external reference counts on dlclose()
 484 4519569 ld -V does not return a interesting value...
 485 4524512 ld.so.1 should allow alternate termination signals
 486 4524767 elfdump dies on bogus sh_name fields...
 487 4524735 ld getopt processing of '-' changed
 488 4521931 subroutine in a shared object as LOCL instead of GLOB
 489 -----
 490 All the above changes are incorporated in the following patches:
 491 Solaris/SunOS 5.8_sparc patch 109147-14
 492 Solaris/SunOS 5.8_x86 patch 109148-14
 493 Solaris/SunOS 5.7_sparc patch 106950-17
 494 Solaris/SunOS 5.7_x86 patch 106951-17
 495 -----
 496 4532729 tentative definition of TLS variable causes linker to dump core
 497 4526745 fixup ld error message about duplicate dependencies/needed names
 498 4522999 Solaris linker one order of magnitude slower than GNU linker
 499 4518966 dldump undoes existing relocations with no thought of alignment or size.
 500 4587441 Certain libraries have race conditions when setting error codes
 501 4523798 linker option to align bss to large pagesize alignments.
 502 4524008 ld can improperly set st_size of symbols named "_init" or "_fini"
 503 4619282 ld cannot link a program with the option -sb
 504 4620846 Perl Configure probing broken by ld changes
 505 4621122 multiple ld '-zinitarray=' on a commandline fails
 506 -----
 507 Solaris/SunOS 5.8_sparc patch 109147-15
 508 Solaris/SunOS 5.8_x86 patch 109148-15
 509 Solaris/SunOS 5.7_sparc patch 106950-18
 510 Solaris/SunOS 5.7_x86 patch 106951-18
 511 Solaris/SunOS 5.6_sparc patch 107733-10
 512 Solaris/SunOS 5.6_x86 patch 107734-10
 513 -----
 514 All the above changes plus:
 515 4616944 ar seg faults when order of object file is reversed.
 516 are incorporated in the following patches:
 517 Solaris/SunOS 5.8_sparc patch 109147-16
 518 Solaris/SunOS 5.8_x86 patch 109148-16
 519 -----
 520 All the above changes plus:
 521 4872634 Large LD_PRELOAD values can cause SEGV of process
 522 are incorporated in the following patches:
 523 Solaris/SunOS 5.6_sparc patch T107733-11

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524      Solaris/SunOS 5.6_x86      patch T107734-11
525 -----
527 -----
528 Solaris 9 1202 (2nd Q-update - s9u2)
529 -----
530 Bugid Risk Synopsis
531 =====
532 4546416 add help messages to ld.so mdbmodule
533 4526752 we should build and ship ld.so's mdb module
534 4624658 update 386 TLS relocation values
535 4622472 LA_SYMB_DLSYM not set for la_symbind() invocations
536 4638070 ldd/ld.so.1 could aid in detecting unreferenced dependencies
537 PSARC/2002/096 Detecting unreferenced dependencies with ldd(1)
538 4633860 Optimization for unused static global variables
539 PSARC/2002/113 ld -zignore - section elimination
540 4642829 ld.so.1 mprotect()'s text segment for weak relocations (it shouldn't)
541 4621479 'make' in $SRC/cmd/sgs/tools tries to install things in the proto area
542 4529912 purge ia64 source from sgs
543 4651709 dlopen(RTLD_NOLOAD) can disable lazy loading
544 4655066 crle: -u with nonexistent config file doesn't work
545 4654406 string tables created by the link-editor could be smaller...
546 PSARC/2002/160 ld -znocompstrtab - disable string-table compression
547 4651493 RTLD_NOW can result in binding to an object prior to its init being run.
548 4662575 linker displacement relocation checking introduces significant
549 linker overhead
550 4533195 ld interposes on malloc()/free() preventing support library from freeing
551 memory
552 4630224 crle get's confused about memory layout of objects...
553 4664855 crle on application failed with ld.so.1 encountering mmap() returning
554 ENOMEM err
555 4669582 latest dynamic linker causes libthread _init to get skipped
556 4671493 ld.so.1 inconsistantly assigns PATHNAME() on primary objects
557 4668517 compile with map.bssalign doesn't copy _iob to bss
558 -----
559 All the above changes are incorporated in the following patches:
560 Solaris/SunOS 5.9_sparc      patch T112963-01
561 Solaris/SunOS 5.8_sparc      patch T109147-17
562 Solaris/SunOS 5.8_x86        patch T109148-17
563 -----
564 4701749 On Solaris 8 + 109147-16 ld crashes when building a dynamic library.
565 4707808 The ldd command is broken in the latest 2.8 linker patch.
566 -----
567 All the above changes are incorporated in the following patches:
568 Solaris/SunOS 5.9_sparc      patch T112963-02
569 Solaris/SunOS 5.8_sparc      patch T109147-18
570 Solaris/SunOS 5.8_x86        patch T109148-18
571 -----
572 4696204 enable extended section indexes in relocatable objects
573 PSARC/2001/332 ELF gABI updates - round II
574 PSARC/2002/369 libelf interfaces to support ELF Extended Sections
575 4706503 linkers need to cope with EF_SPARCV9_PSO/EF_SPARCV9_RMO
576 4716929 updating of local register symbols in dynamic symtab busted...
577 4710814 add "official" support for the "symbolic" keyword in linker map-file
578 PSARC/2002/439 linker mapfile visibility declarations
579 -----
580 All the above changes are incorporated in the following patches:
581 Solaris/SunOS 5.9_sparc      patch T112963-03
582 Solaris/SunOS 5.8_sparc      patch T109147-19
583 Solaris/SunOS 5.8_x86        patch T109148-19
584 Solaris/SunOS 5.7_sparc      patch T106950-19
585 Solaris/SunOS 5.7_x86        patch T106951-19
586 -----
588 -----
589 Solaris 9 403 (3rd Q-update - s9u3)

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590 -----
591 Bugid Risk Synopsis
592 =====
593 4731174 strip(1) does not fixup SHT_GROUP data
594 4733697 -zignore with gcc may exclude C++ exception sections
595 4733317 R_SPARC_*_HIX22 calculations are wrong with 32bit LD building
596 ELF64 binaries
597 4735165 fatal linker error when compiling C++ programs with -xlinkopt
598 4736951 The mcs broken when the target file is an archive file
599 -----
600 All the above changes are incorporated in the following patches:
601 Solaris/SunOS 5.8_sparc      patch T109147-20
602 Solaris/SunOS 5.8_x86        patch T109148-20
603 Solaris/SunOS 5.7_sparc      patch T106950-20
604 Solaris/SunOS 5.7_x86        patch T106951-20
605 -----
606 4739660 Threads deadlock in schedlock and dynamic linker lock.
607 4653148 ld.so.1/libc should unregister its dlclose() exit handler via a fini.
608 4743413 ld.so.1 doesn't terminate argv with NULL pointer when invoked directly
609 4746231 linker core-dumps when SECTION relocations are made against discarded
610 sections
611 4730433 ld.so.1 wastes time repeatedly opening dependencies
612 4744337 missing RD_CONSISTENT event with dlmopen(LD_ID_NEWM, ...)
613 4670835 rd_load_objiter can ignore callback's return value
614 4745932 strip utility doesn't strip out Dwarf2 debug section
615 4754751 "strip" command doesn't remove comdat stab sections.
616 4755674 Patch 109147-18 results in coredump.
617 -----
618 All the above changes are incorporated in the following patches:
619 Solaris/SunOS 5.9_sparc      patch T112963-04
620 Solaris/SunOS 5.7_sparc      patch T106950-21
621 Solaris/SunOS 5.7_x86        patch T106951-21
622 -----
623 4772927 strip core dumps on an archive library
624 4774727 direct-bindings can fail against copy-reloc symbols
625 -----
626 All the above changes are incorporated in the following patches:
627 Solaris/SunOS 5.9_sparc      patch T112963-05
628 Solaris/SunOS 5.9_x86        patch T113986-01
629 Solaris/SunOS 5.8_sparc      patch T109147-21
630 Solaris/SunOS 5.8_x86        patch T109148-21
631 Solaris/SunOS 5.7_sparc      patch T106950-22
632 Solaris/SunOS 5.7_x86        patch T106951-22
633 -----
635 -----
636 Solaris 9 803 (4th Q-update - s9u4)
637 -----
638 Bugid Risk Synopsis
639 =====
640 4730110 ld.so.1 list implementation could scale better
641 4728822 restrict the objects dlsym() searches.
642 PSARC/2002/478 New dlopen(3dl) flag - RTLD_FIRST
643 4714146 crle: 64-bit secure pathname is incorrect.
644 4504895 dlclose() does not remove all objects
645 4698800 Wrong comments in /usr/lib/ld/sparcv9/map.*
646 4745129 ldldump is inconsistent with .dynamic processing errors.
647 4753066 LD_SIGNAL isn't very useful in a threaded environment
648 PSARC/2002/569 New dlinfo(3dl) flag - RTLD_DI_SIGNAL
649 4765536 crle: symbolic links can confuse alternative object configuration info
650 4766815 ld -r of object the TLS data fails
651 4770484 elfdump can not handle stripped archive file
652 4770494 The ld command gives improper error message handling broken archive
653 4775738 overwriting output relocation table when 'ld -zignore' is used
654 4778247 elfdump -e of core files fails
655 4779976 elfdump dies on bad relocation entries

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656 4787579 invalid SHT_GROUP entries can cause linker to seg fault
 657 4783869 dlclose: filter closure exhibits hang/failure - introduced with 4504895
 658 4778418 ld.so.1: there be nits out there
 659 4792461 Thread-Local Storage - x86 instruction sequence updates
 660 PSARC/2002/746 Thread-Local Storage - x86 instruction sequence updates
 661 4461340 sgs: ugly build output while suppressing ia64 (64-bit) build on Intel
 662 4790194 dlopen(..., RTLD_GROUP) has an odd interaction with interposition
 663 4804328 auditing of threaded applications results in deadlock
 664 4806476 building relocatable objects with SHF_EXCLUDE loses relocation
 665 information
 666 -----
 667 All the above changes are incorporated in the following patches:
 668 Solaris/SunOS 5.9_sparc patch T112963-06
 669 Solaris/SunOS 5.9_x86 patch T113986-02
 670 Solaris/SunOS 5.8_sparc patch T109147-22
 671 Solaris/SunOS 5.8_x86 patch T109148-22
 672 -----
 673 4731183 compiler creates .tbslss section instead of .tbss as documented
 674 4816378 TLS: a tls test case dumps core with C and C++ compilers
 675 4817314 TLS_GD relocations against local symbols do not reference symbol...
 676 4811951 non-default symbol visibility overridden by definition in shared object
 677 4802194 relocation error of mozilla built by K2 compiler
 678 4715815 ld should allow linking with no output file (or /dev/null)
 679 4793721 Need a way to null all code in ISV objects enabling ld performance
 680 tuning
 681 -----
 682 All the above changes plus:
 683 4796237 RFE: link-editor became extremely slow with patch 109147-20 and
 684 static libraries
 685 are incorporated in the following patches:
 686 Solaris/SunOS 5.9_sparc patch T112963-07
 687 Solaris/SunOS 5.9_x86 patch T113986-03
 688 Solaris/SunOS 5.8_sparc patch T109147-23
 689 Solaris/SunOS 5.8_x86 patch T109148-23
 690 -----
 692 -----
 693 Solaris 9 1203 (5th Q-update - s9u5)
 694 -----
 695 Bugid Risk Synopsis
 696 ======
 697 4830584 mmap for the padding region doesn't get freed after dlclose
 698 4831650 ld.so.1 can walk off the end of it's call_init() array...
 699 4831544 ldd using .so modules compiled with FD7 compiler caused a core dump
 700 4834784 Accessing members in a TLS structure causes a core dump in Oracle
 701 4824026 segv when -z combreloc is used with -xlinkopt
 702 4825296 typo in elfdump
 703 -----
 704 All the above changes are incorporated in the following patches:
 705 Solaris/SunOS 5.9_sparc patch T112963-08
 706 Solaris/SunOS 5.9_x86 patch T113986-04
 707 Solaris/SunOS 5.8_sparc patch T109147-24
 708 Solaris/SunOS 5.8_x86 patch T109148-24
 709 -----
 710 4470917 Solaris Process Model Unification (link-editor components only)
 711 PSARC/2002/117 Solaris Process Model Unification
 712 4744411 Bloomberg wants a faster linker.
 713 4811969 64-bit links can be much slower than 32-bit.
 714 4825065 ld(1) should ignore consecutive empty sections.
 715 4838226 unrelocated shared objects may be erroneously collected for init firing
 716 4830899 TLS: testcase core dumps with -xarch=v9 and -g
 717 4845764 filter removal can leave dangling filtee pointer
 718 4811093 aptrace -F libc date core dumps
 719 4826315 Link editors need to be pre- and post- Unified Process Model aware
 720 4868300 interposing on direct bindings can fail
 721 4872634 Large LD_PRELOAD values can cause SEGV of process

722 -----
 723 All the above changes are incorporated in the following patches:
 724 Solaris/SunOS 5.9_sparc patch T112963-09
 725 Solaris/SunOS 5.9_x86 patch T113986-05
 726 Solaris/SunOS 5.8_sparc patch T109147-25
 727 Solaris/SunOS 5.8_x86 patch T109148-25
 728 -----
 730 -----
 731 Solaris 9 404 (6th Q-update - s9u6)
 732 -----
 733 Bugid Risk Synopsis
 734 ======
 735 4870260 The elfdump command should produce more warning message on invalid move
 736 entries.
 737 4865418 empty PT_TLS program headers cause problems in TLS enabled applications
 738 4825151 compiler core dumped with a -mt -xF=%all test
 739 4845829 The runtime linker fails to dlopen() long path name.
 740 4900684 shared libraries with more than 32768 plt's fail for sparc ELF64
 741 4906062 Makefiles under usr/src/cmd/sgs needs to be updated
 742 -----
 743 All the above changes are incorporated in the following patches:
 744 Solaris/SunOS 5.9_sparc patch T112963-10
 745 Solaris/SunOS 5.9_x86 patch T113986-06
 746 Solaris/SunOS 5.8_sparc patch T109147-26
 747 Solaris/SunOS 5.8_x86 patch T109148-26
 748 Solaris/SunOS 5.7_sparc patch T106950-24
 749 Solaris/SunOS 5.7_x86 patch T106951-24
 750 -----
 751 4900320 rtld library mapping could be faster
 752 4911775 implement GOTDATA proposal in ld
 753 PSARC/2003/477 SPARC GOTDATA instruction sequences
 754 4904565 Functionality to ignore relocations against external symbols
 755 4764817 add section types SHT_DEBUG and SHT_DEBUGSTR
 756 PSARC/2003/510 New ELF DEBUG and ANNOTATE sections
 757 4850703 enable per-symbol direct bindings
 758 4716275 Help required in the link analysis of runtime interfaces
 759 PSARC/2003/519 Link-editors: Direct Binding Updates
 760 4904573 elfdump may hang when processing archive files
 761 4918310 direct binding from an executable can't be interposed on
 762 4918938 ld.so.1 has become SPARC32PLUS - breaks 4.x binary compatibility
 763 4911796 SIS8 C++: ld dump core when compiled and linked with xlinkopt=1.
 764 4889914 ld crashes with SEGV using -M mapfile under certain conditions
 765 4911936 exception are not catch from shared library with -zignore
 766 -----
 767 All the above changes are incorporated in the following patches:
 768 Solaris/SunOS 5.9_sparc patch T112963-11
 769 Solaris/SunOS 5.9_x86 patch T113986-07
 770 Solaris/SunOS 5.8_sparc patch T109147-27
 771 Solaris/SunOS 5.8_x86 patch T109148-27
 772 Solaris/SunOS 5.7_sparc patch T106950-25
 773 Solaris/SunOS 5.7_x86 patch T106951-25
 774 -----
 775 4946992 ld crashes due to huge number of sections (>65,000)
 776 4951840 mcs -c goes into a loop on executable program
 777 4939869 Need additional relocation types for abs34 code model
 778 PSARC/2003/684 abs34 ELF relocations
 779 -----
 780 All the above changes are incorporated in the following patches:
 781 Solaris/SunOS 5.9_sparc patch T112963-12
 782 Solaris/SunOS 5.9_x86 patch T113986-08
 783 Solaris/SunOS 5.8_sparc patch T109147-28
 784 Solaris/SunOS 5.8_x86 patch T109148-28
 785 -----
 787 -----

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788 Solaris 9 904 (7th Q-update - s9u7)
789 -----
790 Bugid Risk Synopsis
791 =====
792 4912214 Having multiple of libc.so.1 in a link map causes malloc() to fail
793 4526878 ld.so.1 should pass MAP_ALIGN flag to give kernel more flexibility
794 4930997 sgs bld_vernote.ksh script needs to be hardend...
795 4796286 ld.so.1: scenario for trouble?
796 4930985 clean up cruft under usr/src/cmd/sgs/tools
797 4933300 remove references to Ultra-1 in librtld_db demo
798 4936305 string table compression is much too slow...
799 4939626 SUNWworld internal package must be updated...
800 4939565 per-symbol filtering required
801 4948119 ld(1) -z loadfltr fails with per-symbol filtering
802 4948427 ld.so.1 gives fatal error when multiple RTLDINFO objects are loaded
803 4940894 ld core dumps using "-xldscope=symbolic"
804 4955373 per-symbol filtering refinements
805 4878827 crle(1M) - display post-UPM search paths, and compensate for pre-UPM.
806 4955802 /usr/ccs/bin/ld dumps core in process_reld()
807 4964415 elfdump issues wrong relocation error message
808 4966465 LD_NOAUXFLTR fails when object is both a standard and auxiliary filter
809 4973865 the link-editor does not scale properly when linking objects with
810 lots of syms
811 4975598 SHT_SUNW_ANNOTATE section relocation not resolved
812 4974828 nss_files nss_compat r_mt tests randomly segfaulting
813 -----
814 All the above changes are incorporated in the following patches:
815 Solaris/SunOS 5.9_sparc patch T112963-13
816 Solaris/SunOS 5.9_x86 patch T113986-09
817 -----
818 4860508 link-editors should create/promote/verify hardware capabilities
819 5002160 crle: reservation for dumped objects gets confused by mmaped object
820 4967869 linking stripped library causes segv in linker
821 5006657 link-editor doesn't always handle nodirect binding syminfo information
822 4915901 no way to see ELF information
823 5021773 ld.so.1 has trouble with objects having more than 2 segments.
824 -----
825 All the above changes are incorporated in the following patches:
826 Solaris/SunOS 5.9_sparc patch T112963-14
827 Solaris/SunOS 5.9_x86 patch T113986-10
828 Solaris/SunOS 5.8_sparc patch T109147-29
829 Solaris/SunOS 5.8_x86 patch T109148-29
830 -----
831 All the above changes plus:
832 6850124 dlopen reports "No such file or directory" in spite of ENOMEM
833 when mmap fails in anon_map()
834 are incorporated in the following patches:
835 Solaris/SunOS 5.9_sparc patch TXXXXXX-XX
836 Solaris/SunOS 5.9_x86 patch TXXXXXX-XX
837 -----
839 -----
840 Solaris 10
841 -----
842 Bugid Risk Synopsis
843 =====
844 5044797 ld.so.1: secure directory testing is being skipped during filtee
845 processing
846 4963676 Remove remaining static libraries
847 5021541 unnecessary PT_SUNWBSS segment may be created
848 5031495 elfdump complains about bad symbol entries in core files
849 5012172 Need error when creating shared object with .o compiled
850 -xarch=v9 -xcode=abs44
851 4994738 rd_plt_resolution() resolves ebx-relative PLT entries incorrectly
852 5023493 ld -m output with patch 109147-25 missing .o information
853 -----

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854 All the above changes are incorporated in the following patches:
855 Solaris/SunOS 5.9_sparc patch T112963-15
856 Solaris/SunOS 5.9_x86 patch T113986-11
857 Solaris/SunOS 5.8_sparc patch T109147-30
858 Solaris/SunOS 5.8_x86 patch T109148-30
859 -----
860 5071614 109147-29 & -30 break the build of on28-patch on Solaris 8 2/04
861 5029830 crle: provide for optional alternative dependencies
862 5034652 ld.so.1 should save, and print, more error messages
863 5036561 ld.so.1 outputs non-fatal fatal message about auxiliary filter libraries
864 5042713 4866170 broke ld.so's ::setenv
865 5047082 ld can core dump on bad gcc objects
866 5047612 ld.so.1: secure pathname verification is flawed with filter use
867 5047235 elfdump can core dump printing PT_INTERP section
868 4798376 nits in demo code
869 5041446 gelf_update_*() functions inconsistently return NULL or 0
870 5032364 M_ID_TLSBSS and M_ID_UNKNOWN have the same value
871 4707030 Empty LD_PRELOAD_64 doesn't override LD_PRELOAD
872 4968618 symbolic linkage causes core dump
873 5062313 dladdr() can cause deadlock in MT apps.
874 5056867 $ISALIST/$HWCAP expansion should be more flexible.
875 4918303 @0.o.so.1 should not use compiler-supplied crt*.o files
876 5058415 whocalls cannot take more than 10 arguments
877 5067518 The fix for 4918303 breaks the build if a new work space is used.
878 -----
879 All the above changes are incorporated in the following patches:
880 Solaris/SunOS 5.9_sparc patch T112963-16
881 Solaris/SunOS 5.9_x86 patch T113986-12
882 Solaris/SunOS 5.8_sparc patch T109147-31
883 Solaris/SunOS 5.8_x86 patch T109148-31
884 -----
885 5013759 *file* should report hardware/software capabilities (link-editor
886 components only)
887 5063580 libldstab: file /tmp/posto...: .stab[.index|.sbfocus] found with no
888 matching stri
889 5076838 elfdump(1) is built with a CTF section (the wrong one)
890 5080344 Hardware capabilities are not enforced for a.out
891 5079061 RTLD_DEFAULT can be expensive
892 PSARC/2004/747 New dlSym(3c) Handle - RTLD_PROBE
893 5064973 allow normal relocs against TLS symbols for some sections
894 5085792 LD_XXXX_64 should override LD_XXXX
895 5096272 every executable or library has a .SUNW_dof section
896 5094135 Bloomberg wants a faster ldd.
897 5086352 libld.so.3 should be built with a .SUNW_ctf ELF section, ready for CR
898 5098205 elfdump gives wrong section name for the global offset table
899 5092414 Linker patch 109147-29 makes Broadvision One-To-One server v4.1
900 installation fail
901 5080256 dump(1) doesn't list ELF hardware capabilities
902 5097347 recursive read lock in gelf_getsym()
903 -----
904 All the above changes are incorporated in the following patches:
905 Solaris/SunOS 5.9_sparc patch T112963-17
906 Solaris/SunOS 5.9_x86 patch T113986-13
907 Solaris/SunOS 5.8_sparc patch T109147-32
908 Solaris/SunOS 5.8_x86 patch T109148-32
909 -----
910 5106206 ld.so.1 fail to run a Solaris9 program that has libc linked with
911 -z lazyload
912 5102601 ON should deliver a 64-bit operating system for Opteron systems
913 (link-editor components only)
914 6173852 enable link_auditing technology for amd64
915 6174599 linker does not create .eh_frame_hdr sections for eh_frame sections
916 with SHF_LINK_ORDER
917 6175609 amd64 run-time linker has a corrupted note section
918 6175843 amd64 rdb_demo files not installed
919 6182293 ld.so.1 can repeatedly relocate object .plts (RTLD_NOW).

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920 6183645 ld core dumps when automounter fails
 921 6178667 ldd list unexpected (file not found) in x86 environment.
 922 6181928 Need new reloc types R_AMD64_GOTOFF64 and R_AMD64_GOTPC32
 923 6182884 AMD64: ld coredumps when building a shared library
 924 6173559 The ld may set incorrect value for sh_addrall under some conditions.
 925 5105601 ld.so.1 gets a little too enthusiastic with interposition
 926 6189384 ld.so.1 should accommodate a files dev/inode change (libc loopback mnt)
 927 6177838 AMD64: linker cannot resolve PLT for 32-bit a.out(s) on amd64-S2 kernel
 928 6190863 sparc disassembly code should be removed from rdb_demo
 929 6191488 unwind eh_frame_hdr needs corrected encoding value
 930 6192490 moe(1) returns /lib/libc.so.1 for optimal expansion of libc HWCAP
 931 libraries
 932 6192164 AMD64: introduce dlamdd64getunwind interface
 933 PSARC/2004/747 libc::dlamdd64getunwind()
 934 6195030 libld has bad version name
 935 6195521 64-bit moe(1) missed the train
 936 6198358 AMD64: bad eh_frame_hdr data when C and C++ mixed in a.out
 937 6204123 ld.so.1: symbol lookup fails even after lazy loading fallback
 938 6207495 UNIX98/UNIX03 vsx namespace violation DYNL.hdr/misc/dlfcn/T.dlfcn
 939 14 Failed
 940 6217285 ctfmerge crashed during full onnv build
 941 -----
 943 -----
 944 Solaris 10 106 (1st Q-update - s10u1)
 945 -----
 946 Bugid Risk Synopsis
 947 ======
 948 6209350 Do not include signature section from dynamic dependency library into
 949 relocatable object
 950 6212797 The binary compiled on SunOS4.x doesn't run on Solaris8 with Patch
 951 109147-31
 952 -----
 953 All the above changes are incorporated in the following patches:
 954 Solaris/SunOS 5.9_sparc patch T112963-18
 955 Solaris/SunOS 5.9_x86 patch T113986-14
 956 Solaris/SunOS 5.8_sparc patch T109147-33
 957 Solaris/SunOS 5.8_x86 patch T109148-33
 958 -----
 959 6219538 112963-17: linker patch causes binary to dump core
 960 -----
 961 All the above changes are incorporated in the following patches:
 962 Solaris/SunOS 5.10_sparc patch T117461-01
 963 Solaris/SunOS 5.10_x86 patch T118345-01
 964 Solaris/SunOS 5.9_sparc patch T112963-19
 965 Solaris/SunOS 5.9_x86 patch T113986-15
 966 Solaris/SunOS 5.8_sparc patch T109147-34
 967 Solaris/SunOS 5.8_x86 patch T109148-34
 968 -----
 969 6257177 incremental builds of usr/src/cmd/sgs can fail...
 970 6219651 AMD64: Linker does not issue error for out of range R_AMD64_PC32
 971 -----
 972 All the above changes are incorporated in the following patches:
 973 Solaris/SunOS 5.10_sparc patch T117461-02
 974 Solaris/SunOS 5.10_x86 patch T118345-02
 975 Solaris/SunOS 5.9_sparc patch T112963-20
 976 Solaris/SunOS 5.9_x86 patch T113986-16
 977 Solaris/SunOS 5.8_sparc patch T109147-35
 978 Solaris/SunOS 5.8_x86 patch T109148-35
 979 NOTE: The fix for 6219651 is only applicable for 5.10_x86 platform.
 980 -----
 981 5080443 lazy loading failure doesn't clean up after itself (D)
 982 6226206 ld.so.1 failure when processing single segment hwcap filtee
 983 6228472 ld.so.1: link-map control list stacking can loose objects
 984 6235000 random packages not getting installed in svn_09 and svn_10 -
 985 rtld/common/malloc.c Assertion

986 6219317 Large page support is needed for mapping executables, libraries and
 987 files (link-editor components only)
 988 6244897 ld.so.1 can't run apps from commandline
 989 6251798 moe(1) returns an internal assertion failure message in some
 990 circumstances
 991 6251722 ld fails silently with exit 1 status when -z ignore passed
 992 6254364 ld won't build libgenunix.so with absolute relocations
 993 6215444 ld.so.1 caches "not there" lazy libraries, foils svc.startd(1M)'s logic
 994 6222525 dlsym(3C) trusts caller(), which may return wrong results with tail call
 995 optimization
 996 6241995 warnings in sgs should be fixed (link-editor components only)
 997 6258834 direct binding availability should be verified at runtime
 998 6260361 lari shouldn't count a.out non-zero undefined entries as interesting
 999 6260780 ldd doesn't recognize LD_NOAUXFLTR
 1000 62666261 Add ld(1) -Bnodirect support (D)
 1001 6261990 invalid e_flags error could be a little more friendly
 1002 6261803 lari(1) should find more events uninteresting (D)
 1003 6267352 libld_malloc provides inadequate alignment
 1004 6268693 SHN_SUNW_IGNORE symbols should be allowed to be multiply defined
 1005 6262789 Infosys wants a faster linker
 1006 -----
 1007 All the above changes are incorporated in the following patches:
 1008 Solaris/SunOS 5.10_sparc patch T117461-03
 1009 Solaris/SunOS 5.10_x86 patch T118345-03
 1010 Solaris/SunOS 5.9_sparc patch T112963-21
 1011 Solaris/SunOS 5.9_x86 patch T113986-17
 1012 Solaris/SunOS 5.8_sparc patch T109147-36
 1013 Solaris/SunOS 5.8_x86 patch T109148-36
 1014 -----
 1015 6283601 The usr/src/cmd/sgs/packages/common/copyright contains old information
 1016 legally problematic
 1017 6276905 dlinfo gives inconsistent results (relative vs absolute linkname) (D)
 1018 PSARC/2005/357 dlinfo(3c) RTLD_DI_ARGSINFO
 1019 6284941 excessive link times with many groups/sections
 1020 6280467 diclose() unmaps shared library before library's _fini() has finished
 1021 6291547 ld.so mishandles LD_AUDIT causing security problems.
 1022 -----
 1023 All the above changes are incorporated in the following patches:
 1024 Solaris/SunOS 5.10_sparc patch T117461-04
 1025 Solaris/SunOS 5.10_x86 patch T118345-04
 1026 Solaris/SunOS 5.9_sparc patch T112963-22
 1027 Solaris/SunOS 5.9_x86 patch T113986-18
 1028 Solaris/SunOS 5.8_sparc patch T109147-37
 1029 Solaris/SunOS 5.8_x86 patch T109148-37
 1030 -----
 1031 6295971 UNIX98/UNIX03 *vsx* DYNL.hdr/misc/dlfcn/T.dlfcn 14 fails, auxv.h syntax
 1032 error
 1033 6299525 .init order failure when processing cycles
 1034 6273855 gcc and sgs/crle don't get along
 1035 6273864 gcc and sgs/libld don't get along
 1036 6273875 gcc and sgs/rtld don't get along
 1037 6272563 gcc and amd64/krtld/doreloc.c don't get along
 1038 6290157 gcc and sgs/librtld_db/rdb_demo don't get along
 1039 6301218 Matlab dumps core on startup when running on 112963-22 (D)
 1040 -----
 1041 All the above changes are incorporated in the following patches:
 1042 Solaris/SunOS 5.10_sparc patch T117461-06
 1043 Solaris/SunOS 5.10_x86 patch T118345-08
 1044 Solaris/SunOS 5.9_sparc patch T112963-23
 1045 Solaris/SunOS 5.9_x86 patch T113986-19
 1046 Solaris/SunOS 5.8_sparc patch T109147-38
 1047 Solaris/SunOS 5.8_x86 patch T109148-38
 1048 -----
 1049 6314115 Checkpoint refuses to start, crashes on start, after application of
 1050 linker patch 112963-22
 1051 -----

1052 All the above changes are incorporated in the following patches:
 1053 Solaris/SunOS 5.9_sparc patch T112963-24
 1054 Solaris/SunOS 5.9_x86 patch T113986-20
 1055 Solaris/SunOS 5.8_sparc patch T109147-39
 1056 Solaris/SunOS 5.8_x86 patch T109148-39

1057 -----
 1058 6318306 a dlsym() from a filter should be redirected to an associated filtee
 1059 6318401 mis-aligned TLS variable

1060 6324019 ld.so.1: malloc alignment is insufficient for new compilers
 1061 6324589 psh coredumps on x86 machines on snv_23
 1062 6236594 AMD64: Linker needs to handle the new .lbss section (D)
 1063 PSARC 2005/514 AMD64 - large section support
 1064 6314743 Linker: incorrect resolution for R_AMD64_GOTPC32
 1065 6311865 Linker: x86 medium model; invalid ELF program header

1066 -----
 1067 All the above changes are incorporated in the following patches:
 1068 Solaris/SunOS 5.10_sparc patch T117461-07
 1069 Solaris/SunOS 5.10_x86 patch T118345-12

1070 -----
 1071 6309061 link_audit should use __asm__ with gcc
 1072 6310736 gcc and sgs/libld don't get along on SPARC
 1073 6329796 Memory leak with iconv_open/iconv_close with patch 109147-33
 1074 6332983 s9 linker patches 112963-24/113986-20 causing cluster machines not
 to boot

1075 All the above changes are incorporated in the following patches:
 1076 Solaris/SunOS 5.10_sparc patch T117461-08
 1077 Solaris/SunOS 5.10_x86 patch T121208-02
 1078 Solaris/SunOS 5.9_sparc patch T112963-25
 1079 Solaris/SunOS 5.9_x86 patch T113986-21
 1080 Solaris/SunOS 5.8_sparc patch T109147-40
 1081 Solaris/SunOS 5.8_x86 patch T109148-40

1082 All the above changes are incorporated in the following patches:
 1083 Solaris/SunOS 5.9_sparc patch T112963-26
 1084 Solaris/SunOS 5.8_sparc patch T109147-41

1085 6445311 The sparc S8/S9/S10 linker patches which include the fix for the
 1086 CR6222525 are hit by the CR6439613.

1087 -----
 1088 All the above changes are incorporated in the following patches:
 1089 Solaris/SunOS 5.9_sparc patch T112963-26
 1090 Solaris/SunOS 5.8_sparc patch T109147-41

1091 -----
 1092 Solaris 10 807 (4th Q-update - s10u4)

1093 -----
 1094 Bugid Risk Synopsis

1095 -----
 1096 6487273 ld.so.1 may open arbitrary locale files when relative path is built
 from locale environment vars
 1097 -----
 1098 6487284 ld.so.1: buffer overflow in doprf() function

1099 -----
 1100 All the above changes are incorporated in the following patches:
 1101 Solaris/SunOS 5.10_sparc patch T124922-01
 1102 Solaris/SunOS 5.10_x86 patch T124923-01
 1103 Solaris/SunOS 5.9_sparc patch T112963-27
 1104 Solaris/SunOS 5.9_x86 patch T113986-22
 1105 Solaris/SunOS 5.8_sparc patch T109147-42
 1106 Solaris/SunOS 5.8_x86 patch T109148-41

1107 -----
 1108 6477132 ld.so.1: memory leak when running set*id application

1109 -----
 1110 All the above changes are incorporated in the following patches:
 1111 Solaris/SunOS 5.10_sparc patch T124922-02
 1112 Solaris/SunOS 5.10_x86 patch T124923-02
 1113 Solaris/SunOS 5.9_sparc patch T112963-30
 1114 Solaris/SunOS 5.9_x86 patch T113986-24

1115 -----
 1116 -----
 1117 -----

1118 6340814 ld.so.1 core dump with HWCAP relocatable object + updated statistics
 1119 6307274 crle bug with LD_LIBRARY_PATH
 1120 6317969 elfheader limited to 65535 segments (link-editor components only)
 1121 6350027 ld.so.1 aborts with assertion failed on amd64
 1122 6362044 ld(1) inconsistencies with LD_DEBUG=Dunused and -zignore
 1123 6362047 ld.so.1 dumps core when combining HWCAP and LD_PROFILE
 1124 6304206 runtime linker may respect LANG and LC_MESSAGE more than LC_ALL
 1125 6363495 Catchup required with Intel relocations
 1126 6326497 ld.so not properly processing LD_LIBRARY_PATH ending in :
 1127 6307146 mcs dumps core when appending null string to comment section
 1128 6371877 LD_PROFILE_64 with gprof does not produce correct results on amd64
 1129 6372082 ld -r erroneously creates .got section on i386
 1130 6201866 amd64: linker symbol elimination is broken
 1131 6372620 printstack() segfaults when called from static function (D)
 1132 6380470 32-bit ld(1) incorrectly builds 64-bit relocatable objects
 1133 6391407 Insufficient alignment of 32-bit object in archive makes ld segfault
 (libelf component only) (D)
 1134 6316708 LD_DEBUG should provide a means of identifying/isolating individual
 link-map lists (P)
 1135 6280209 elfdump cores on memory model 0x3
 1136 6197234 elfdump and dump don't handle 64-bit symbols correctly
 1137 6398893 Extended section processing needs some work
 1138 6397256 ldd dumps core in elf_fix_name
 1139 6327926 ld does not set etext symbol correctly for AMD64 medium model (D)
 1140 6390410 64-bit LD_PROFILE can fail: relocation error when binding profile plt
 1141 6382945 AMD64-GCC: dbx: internal error: dwarf reference attribute out of bounds
 1142 6262333 init section of .so dlopened from audit interface not being called
 1143 6409613 elf_outsync() should fsync()
 1144 6426048 C++ exceptions broken in Nevada for amd64
 1145 6429418 ld.so.1: need work-around for Nvidia drivers use of static TLS
 1146 6429504 crle(1) shows wrong defaults for non-existent 64-bit config file
 1147 6429504 crle(1) shows wrong defaults for non-existent 64-bit config file
 1148 6431835 data corruption on x64 in 64-bit mode while LD_PROFILE is in effect
 1149 6423051 static TLS support within the link-editors needs a major face lift (D)
 1150 6388946 attempting to dlopen a .o file mislabeled as .so fails
 1151 6446740 allow mapfile symbol definitions to create backing storage (D)
 1152 64986360 linker crash on exec of .so (as opposed to a.out) -- error preferred
 1153 instead
 1154 6229145 ld: initarray/finiarray processing occurs after got size is determined
 1155 6324924 the linker should warn if there's a .init section but not _init
 1156 6424132 elfdump inserts extra whitespace in bitmap value display
 1157 6449485 ld(1) creates misaligned TLS in binary compiled with -xpg
 1158 6424550 Write to unallocated (wua) errors when libraries are built with
 1159 -z lazyload
 1160 6464235 executing the 64-bit ld(1) should be easy (D)
 1161 6465623 need a way of building unix without an interpreter
 1162 6467925 ld: section deletion (-z ignore) requires improvement
 1163 6357230 specfiles should be nuked (link-editor components only)
 1164 -----
 1165 -----
 1166 All the above changes are incorporated in the following patches:
 1167 Solaris/SunOS 5.10_sparc patch T124922-03
 1168 Solaris/SunOS 5.10_x86 patch T124923-03

1169 -----
 1170 These patches also include the framework changes for the following bug fixes.
 1171 However, the associated feature has not been enabled in Solaris 10 or earlier
 1172 releases:

1173 6174390 crle configuration files are inconsistent across platforms (D, P)
 1174 6432984 ld(1) output file removal - change default behavior (D)
 1175 6432984 PSARC/2006/353 ld(1) output file removal - change default behavior

1176 -----
 1177 -----
 1178 -----
 1179 -----
 1180 Solaris 10 508 (5th Q-update - s10u5)
 1181 -----
 1182 Bugid Risk Synopsis
 1183 =====

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1184 6561987 data vac_conflict faults on lipthread libthread libs in s10.
1185 -----
1186 All the above changes are incorporated in the following patches:
1187   Solaris/SunOS 5.10_sparc      patch T127111-01
1188   Solaris/SunOS 5.10_x86      patch T127112-01
1189 -----
1190 6501793 GOTOP relocation transition (optimization) fails with offsets > 2^32
1191 6532924 AMD64: Solaris 5.11_55b: SEGV after whocatches
1192 6551627 OGL: SIGSEGV when trying to use OpenGL pipeline with splash screen,
1193   Solaris/Nvidia only
1194 -----
1195 All the above changes are incorporated in the following patches:
1196   Solaris/SunOS 5.10_sparc      patch T127111-04
1197   Solaris/SunOS 5.10_x86      patch T127112-04
1198 -----
1199 6479848 Enhancements to the linker support interface needed. (D)
1200 PSARC/2006/595 link-editor support library interface - ld_open()
1201 6521608 assertion failure in runtime linker related to auditing
1202 6494228 pclose() error when an audit library calls popen() and the main target
1203   is being run under ldd (D)
1204 6568745 segfault when using LD_DEBUG with bit_audit library when instrumenting
1205 mozilla (D)
1206 PSARC/2007/413 Add -zglobalaudit option to ld
1207 6602294 ps_pbrandname breaks apps linked directly against librtld_db
1208 -----
1209 All the above changes are incorporated in the following patches:
1210   Solaris/SunOS 5.10_sparc      patch T127111-07
1211   Solaris/SunOS 5.10_x86      patch T127112-07
1212 -----
1214 -----
1215 Solaris 10 908 (6th Q-update - s10u6)
1216 -----
1217 Bugid Risk Synopsis
1218 =====
1219 6672544 elf_rtbndr must support non-ABI aligned stacks on amd64
1220 6668050 First trip through PLT does not preserve args in xmm registers
1221 -----
1222 All the above changes are incorporated in the following patch:
1223   Solaris/SunOS 5.10_x86      patch T137138-01
1224 -----
1226 -----
1227 Solaris 10 409 (7th Q-update - s10u7)
1228 -----
1229 Bugid Risk Synopsis
1230 =====
1231 6629404 ld with -z ignore doesn't scale
1232 6606203 link editor ought to allow creation of >2gb sized objects (P)
1233 -----
1234 All the above changes are incorporated in the following patches:
1235   Solaris/SunOS 5.10_sparc      patch T139574-01
1236   Solaris/SunOS 5.10_x86      patch T139575-01
1237 -----
1238 6746674 setuid applications do not find libraries any more because trusted
1239   directories behavior changed (D)
1240 -----
1241 All the above changes are incorporated in the following patches:
1242   Solaris/SunOS 5.10_sparc      patch T139574-02
1243   Solaris/SunOS 5.10_x86      patch T139575-02
1244 -----
1245 6703683 Can't build VirtualBox on Build 88 or 89
1246 6737579 process_req_lib() in liblbd consumes file descriptors
1247 6685125 ld/elfdump do not handle ZERO terminator .eh_frame amd64 unwind entry
1248 -----
1249 All the above changes are incorporated in the following patches:
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1250   Solaris/SunOS 5.10_sparc      patch T139574-03
1251   Solaris/SunOS 5.10_x86      patch T139575-03
1252 -----
1254 -----
1255 Solaris 10 1009 (8th Q-update - s10u8)
1256 -----
1257 Bugid Risk Synopsis
1258 =====
1259 6782597 32-bit ld.so.1 needs to accept objects with large inode number
1260 6805502 The addition of "inline" keywords to sgs code broke the lint
1261   verification in S10
1262 6807864 ld.so.1 is susceptible to a fatal dlsym()/setlocale() race
1263 -----
1264 All the above changes are incorporated in the following patches:
1265   Solaris/SunOS 5.10_sparc      patch T141692-01
1266   Solaris/SunOS 5.10_x86      patch T141693-01
1267 NOTE: The fix for 6805502 is only applicable to s10.
1268 -----
1269 6826410 ld needs to sort sections using 32-bit sort keys
1270 -----
1271 All the above changes are incorporated in the following patches:
1272   Solaris/SunOS 5.10_sparc      patch T141771-01
1273   Solaris/SunOS 5.10_x86      patch T141772-01
1274 NOTE: The fix for 6826410 is also available for s9 in the following patches:
1275   Solaris/SunOS 5.9_sparc      patch T112963-33
1276   Solaris/SunOS 5.9_x86      patch T113986-27
1277 -----
1278 6568447 bcp is broken by 6551627
1279 6599700 librtld_db needs better plugin support
1280 6713830 mdb dumped core reading a gcore
1281 6756048 rd_loadobj_iter() should always invoke brand plugin callback
1282 6786744 32-bit dbx failed with unknown rtld_db.so error on snv_104
1283 -----
1284 All the above changes are incorporated in the following patches:
1285   Solaris/SunOS 5.10_sparc      patch T141444-06
1286   Solaris/SunOS 5.10_x86      patch T141445-06
1287 -----
1289 -----
1290 Solaris 10 1005 (9th Q-update - s10u9)
1291 -----
1292 Bugid Risk Synopsis
1293 =====
1294 6850124 dlopen reports "No such file or directory" in spite of ENOMEM
1295   when mmap fails in anon_map()
1296 6826513 ldd gets confused by a crle(1) LD_PRELOAD setting
1297 6684577 ld should propagate SHF_LINK_ORDER flag to ET_REL objects
1298 6524709 executables using /usr/lib/libc.so.1 as the ELF interpreter dump core
1299   (link-editor components only)
1300 -----
1301 All the above changes are incorporated in the following patches:
1302   Solaris/SunOS 5.10_sparc      patch T143895-01
1303   Solaris/SunOS 5.10_x86      patch T143896-01
1304 -----
1306 -----
1307 Solaris 10 XXXX (10th Q-update - s10u10)
1308 -----
1309 Bugid Risk Synopsis
1310 -----
1311 6478684 isainfo/cpuid reports pause instruction not supported on amd64
1312 PSARC/2010/089 Removal of AV_386_PAUSE and AV_386_MON
1313 -----
1314 All the above changes are incorporated in the following patches:
1315   Solaris/SunOS 5.10_sparc      patch XXXXXXXX-XX

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1316      Solaris/SunOS 5.10_x86      patch TXXXXXX-XX
1317 -----
1319 -----
1320 Solaris Nevada (OpenSolaris 2008.05, svn_86)
1321 -----
1322 Bugid Risk Synopsis
1323 =====
1324 6409350 BrandZ project integration into Solaris (link-editor components only)
1325 6459189 UNIX03: *VSC* c99 compiler overwrites non-writable file
1326 6423746 add an option to relax the resolution of COMDAT relocs (D)
1327 4934427 runtime linker should load up static symbol names visible to
1328 dladdr() (D)
1329 PSARC 2006/526 SHT_SUNW_LDYNSYM - default local symbol addition
1330 6448719 sys/elf.h could be updated with additional machine and ABI types
1331 6336605 link-editors need to support R_*_SIZE relocations
1332 PSARC/2006/558 R_*_SIZE relocation support
1333 6475375 symbol search optimization to reduce rescans
1334 6475497 elfdump(1) is misreporting sh_link
1335 6482058 lari(1) could be faster, and handle per-symbol filters better
1336 6482974 defining virtual address of text segment can result in an invalid data
1337 segment
1338 6476734 crle(lm) "-l" as described fails system, crle cores trying to fix
1339 /a/var/ld/ld.config in failsafe
1340 6487499 link_audit "make clobber" creates and populates proto area
1341 6488141 ld(1) should detect attempt to reference 0-length .bss section
1342 6496718 restricted visibility symbol references should trigger archive
1343 extraction
1344 6515970 HWCAP processing doesn't clean up fmap structure - browser fails to
1345 run java applet
1346 6494214 Refinements to symbolic binding, symbol declarations and
1347 interposition (D)
1348 PSARC/2006/714 ld(1) mapfile: symbol interpose definition
1349 6475344 DTrace needs ELF function and data symbols sorted by address (D)
1350 PSARC/2007/026 ELF symbol sort sections
1351 6518480 ld -melf_i386 doesn't complain (D)
1352 6519951 bfu is just another word for exit today (RPATH -> RUNPATH conversion
1353 bites us) (D)
1354 6521504 ld: hardware capabilities processing from relocatables objects needs
1355 hardening.
1356 6518322 Some ELF utilities need updating for .SUNW_ldynsym section (D)
1357 PSARC/2007/074 -L option for nm(1) to display SHT_SUNW_LDYNSYM symbols
1358 6523787 dlopen() handle gets mistakenly orphaned - results in access to freed
1359 memory
1360 6531189 SEGV in dladdr()
1361 6527318 dlopen(name, RTLD_NOLOAD) returns handle for unloaded library
1362 6518359 extern mapfiles references to _init/_fini can create INIT/FINI
1363 addresses of 0
1364 6533587 ld.so.1: init/fini processing needs to compensate for interposer
1365 expectations
1366 6516118 Reserved space needed in ELF dynamic section and string table (D)
1367 PSARC/2007/127 Reserved space for editing ELF dynamic sections
1368 6535688 elfdump could be more robust in the face of Purify (D)
1369 6516665 The link-editors should be more resilient against gcc's symbol
1370 versioning
1371 6541004 hwcap filter processing can leak memory
1372 5108874 elfdump SEGVs on bad object file
1373 6547441 Uninitialized variable causes ld.so.1 to crash on object cleanup
1374 6341667 elfdump should check alignments of ELF header elements
1375 6387860 elfdump cores, when processing linux built ELF file
1376 6198202 mcs -d dumps core
1377 6246083 elfdump should allow section index specification
1378 (numeric -N equivalent) (D)
1379 PSARC/2007/247 Add -I option to elfdump
1380 6556563 elfdump section overlap checking is too slow for large files
1381 5006034 need ?E mapfile feature extension (D)

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1382 6565476 rtld symbol version check prevents GNU ld binary from running
1383 6567670 ld(1) symbol size/section size verification uncovers Haskell
1384 compiler inconsistency
1385 6530249 elfdump should handle ELF files with no section header table (D)
1386 PSARC/2007/395 Add -P option to elfdump
1387 6573641 ld.so.1 does not maintain parent relationship to a dlopen() caller.
1388 6577462 Additional improvements needed to handling of gcc's symbol versioning
1389 6583742 ELF string conversion library needs to lose static writable buffers
1390 6589819 ld generated reference to __tls_get_addr() fails when resolving to a
1391 shared object reference
1392 6595139 various applications should export yy* global variables for libl
1393 PSARC/2007/474 new ldd(1) -w option
1394 6597841 __elf_getdyn() reads one too many dynamic entries
1395 6603313 dlclose() can fail to unload objects after fix for 6573641
1396 6234471 need a way to edit ELF objects (D)
1397 PSARC/2007/509 elfedit
1398 5035454 mixing -Kpic and -KPIC may cause SIGSEGV with -xarch=v9
1399 6473571 strip and mcs get confused and corrupt files when passed
1400 non-ELF arguments
1401 6253589 mcs has problems handling multiple SHT_NOTE sections
1402 6610591 do_reloc() should not require unused arguments
1403 6602451 new symbol visibilities required: EXPORTED, SINGLETON and ELIMINATE (D)
1404 PSARC/2007/559 new symbol visibilities - EXPORTED, SINGLETON, and
1405 ELIMINATE
1406 6570616 elfdump should display incorrectly aligned note section
1407 6614968 elfedit needs string table module (D)
1408 6620533 HWCAP filtering can leave uninitialized data behind - results in
1409 "rejected: Invalid argument"
1410 6617855 nodirect tag can be ignored when other syminfo tags are available
1411 (link-editor components only)
1412 6621066 Reduce need for new elfdump options with every section type (D)
1413 PSARC/2007/620 elfdump -T, and simplified matching
1414 6627765 soffice failure after integration of 6603313 - dangling GROUP pointer.
1415 6319025 SUNWBtool packaging issues in Nevada and S10ul.
1416 6626135 elfedit capabilities str->value mapping should come from
1417 usr/src/common/elfcap
1418 6642769 ld(1) -z combreloc should become default behavior (D)
1419 PSARC/2008/006 make ld(1) -z combreloc become default behavior
1420 6634436 XFFLAG should be updated. (link-editor components only)
1421 6492726 Merge SHF_MERGE|SHF_STRINGS input sections (D)
1422 4947191 OSNet should use direct bindings (link-editor components only)
1423 6654381 lazy loading fall-back needs optimizing
1424 6658385 ld core dumps when building Xorg on nv_82
1425 6516808 ld.so.1's token expansion provides no escape for platforms that don't
1426 report HWCAP
1427 6668534 Direct bindings can compromise function address comparisons from
1428 executables
1429 6667661 Direct bindings can compromise executables with insufficient copy
1430 relocation information
1431 6357282 ldd should recognize PARENT and EXTERN symbols (D)
1432 PSARC/2008/148 new ldd(1) -p option
1433 6672394 ldd(1) unused dependency processing is tricked by relocations errors
1434 -----
1436 -----
1437 Solaris Nevada (OpenSolaris 2008.11, svn_101)
1438 -----
1439 Bugid Risk Synopsis
1440 =====
1441 6671255 link-editor should support cross linking (D)
1442 PSARC/2008/179 cross link-editor
1443 6674666 elfedit dyn:posflag1 needs option to locate element via NEEDED item
1444 6675591 elfwrap - wrap data in an ELF file (D,P)
1445 PSARC/2008/198 elfwrap - wrap data in an ELF file
1446 6678244 elfdump dynamic section sanity checking needs refinement
1447 6679212 sgs use of SCCS id for versioning is obstacle to mercurial migration

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1448 6681761 lies, darn lies, and linker README files
 1449 6509323 Need to disable the Multiple Files loading - same name, different
 1450 directories (or its stat() use)
 1451 6686889 ld.so.1 regression - bad pointer created with 6509323 integration
 1452 6695681 ldd(1) crashes when run from a chrooted environment
 1453 6516212 user/src/cmd/sgs/libelf warlock targets should be fixed or abandoned
 1454 6678310 using LD_AUDIT, ld.so.1 calls shared library's .init before library is
 1455 fully relocated (link-editor components only)
 1456 6699594 The ld command has a problem handling 'protected' mapfile keyword.
 1457 6699131 elfdump should display core file notes (D)
 1458 6702260 single threading .init/.fini sections breaks staroffice
 1459 6703919 boot hangs intermittently on x86 with onnv daily.0430 and on
 1460 6701798 ld can enter infinite loop processing bad mapfile
 1461 6706401 direct binding copy relocation fallback is insufficient for ild
 1462 generated objects
 1463 6705846 multithreaded C++ application seems to get deadlocked in the dynamic
 1464 linker code
 1465 6686343 ldd(1) - unused search path diagnosis should be enabled
 1466 6712292 ld.so.1 should fall back to an interposer for failed direct bindings
 1467 6716350 user/src/cmd/sgs should be linted by nightly builds
 1468 6720509 user/src/cmd/sgsdemangler should be removed
 1469 6617475 gas creates erroneous FILE symbols [was: ld.so.1 is reported as
 1470 false positive by wsdiff]
 1471 6724311 ldldump() mishandles R_AMD64_JUMP_SLOT relocations
 1472 6724774 elfdump -n doesn't print siginfo structure
 1473 6728555 Fix for amd64 aw (6617475) breaks pure gcc builds
 1474 6734598 ld(1) archive processing failure due to mismatched file descriptors (D)
 1475 6735939 ld(1) discarded symbol relocations errors (Studio and GNU).
 1476 6354160 Solaris linker includes more than one copy of code in binary when
 1477 linking gnu object code
 1478 6744003 ld(1) could provide better argument processing diagnostics (D)
 1479 PSARC 2008/583 add gld options to ld(1)
 1480 6749055 ld should generate GNU style VERSYM indexes for VERNEED records (D)
 1481 PSARC/2008/603 ELF objects to adopt GNU-style Versym indexes
 1482 6752728 link-editor can enter UNDEF symbols in symbol sort sections
 1483 6756472 AOUT search path pruning (D)
 1484 -----
 1486 -----
 1487 Solaris Nevada (OpenSolaris 2009.06, snv_111)
 1488 -----
 1489 Bugid Risk Synopsis
 1490 -----
 1492 6754965 introduce the SF1_SUNW_ADDR32 bit in software capabilities (D)
 1493 (link-editor components only)
 1494 PSARC/2008/622 32-bit Address Restriction Software Capabilities Flag
 1495 6756953 customer requests that DT_CONFIG strings be honored for secure apps (D)
 1496 6765299 ld --version-script option not compatible with GNU ld (D)
 1497 6748160 problem with -zrscan (D)
 1498 PSARC/2008/651 New ld archive scan options
 1499 6763342 sloppy relocations need to get sloppier
 1500 6736890 PT_SUNWBSS should be disabled (D)
 1501 PSARC/2008/715 PT_SUNWBSS removal
 1502 6772661 ldd/lddstub/ld.so.1 dump core in current nightly while processing
 1503 libsoftcrypto_hwcap.so.1
 1504 6765931 mcs generates unlink(NULL) system calls
 1505 6775062 remove /usr/lib/libldstabs.so (D)
 1506 6782977 ld segfaults after support lib version error sends bad args to vprintf()
 1507 6773695 ld -z nopartial can break non-pic objects
 1508 6778453 RTLD_GROUP prevents use of application defined malloc
 1509 6789925 64-bit applications with SF1_SUNW_ADDR32 require non-default starting
 1510 address
 1511 6792906 ld -z nopartial fix breaks TLS
 1512 6686372 ld.so.1 should use mmapobj(2)
 1513 6726108 dlopen() performance could be improved.

1514 6792836 ld is slow when processing GNU linkonce sections
 1515 6797468 ld.so.1: orphaned handles aren't processed correctly
 1516 6798676 ld.so.1: enters infinite loop with realloc/defragmentation logic
 1517 6237063 request extension to dl* family to provide segment bounds
 1518 information (D)
 1519 PSARC/2009/054 dlinfo(3c) - segment mapping retrieval
 1520 6800388 shstrtab can be sized incorrectly when -z ignore is used
 1521 6805009 ld.so.1: link map control list tear down leaves dangling pointer -
 1522 pfinstall does it again.
 1523 6807050 GNU linkonce sections can create duplicate and incompatible
 1524 eh_frame FDE entries
 1525 -----
 1527 -----
 1528 Solaris Nevada
 1529 -----
 1530 Bugid Risk Synopsis
 1531 ======
 1532 6813909 generalize eh_frame support to non-amd64 platforms
 1533 6801536 ld: mapfile processing oddities unveiled through mmapobj(2) observations
 1534 6802452 libelf shouldn't use MS_SYNC
 1535 6818012 nm tries to modify readonly segment and dumps core
 1536 6821646 xVM dom0 doesn't boot on daily.0324 and beyond
 1537 6822828 librtld_db can return RD_ERR before RD_NOMAPS, which compromises dbx
 1538 expectations.
 1539 6821619 Solaris linkers need systematic approach to ELF OSABI (D)
 1540 PSARC/2009/196 ELF objects to set OSABI / elfdump -O option
 1541 6827468 6801536 breaks 'ld -s' if there are weak/strong symbol pairs
 1542 6715578 AOUT (BPC) symbol lookup can be compromised with lazy loading.
 1543 6752883 ld.so.1 error message should be buffered (not sent to stderr).
 1544 6577982 ld.so.1 calls getpid() before it should when any LD_* are set
 1545 6831285 linker LD_DEBUG support needs improvements (D)
 1546 6806791 filter builds could be optimized (link-editor components only)
 1547 6823371 calloc() uses suboptimal memset() causing 15% regression in SpecCPU2006
 1548 gcc code (link-editor components only)
 1549 6831308 ld.so.1: symbol rescanning does a little too much work
 1550 6837777 ld ordered section code uses too much memory and works too hard
 1551 6841199 Undo 10 year old workaround and use 64-bit ld on 32-bit objects
 1552 6784790 ld should examine archives to determine output object class/machine (D)
 1553 PSARC/2009/305 ld -32 option
 1554 6849998 remove undocumented mapfile \$SPECVERS and \$NEED options
 1555 6851224 elf_getshnum() and elf_getshstrndx() incompatible with 2002 ELF gABI
 1556 agreement (D)
 1557 PSARC/2009/363 replace elf_getphnum, elf_getshnum, and elf_getshstrndx
 1558 6853809 ld.so.1: rescan fallback optimization is invalid
 1559 6854158 ld.so.1: interposition can be skipped because of incorrect
 1560 caller/destination validation
 1561 6862967 rd_loadobj_iter() failing for core files
 1562 6856173 streams core dumps when compiled in 64bit with a very large static
 1563 array size
 1564 6834197 ld pukes when given an empty plate
 1565 6516644 per-symbol filtering shouldn't be allowed in executables
 1566 6878605 ld should accept '%' syntax when matching input SHT_PROGBITS sections
 1567 6850768 ld option to autogenerate wrappers/interposers similar to GNU ld
 1568 --wrap (D)
 1569 PSARC/2009/493 ld -z wrap option
 1570 6888489 Null environment variables are not overriding crle(1) replaceable
 1571 environment variables.
 1572 6885456 Need to implement GNU-ld behavior in construction of .init/.fini
 1573 sections
 1574 6900241 ld should track SHT_GROUP sections by symbol name, not section name
 1575 6901773 Special handling of STT_SECTION group signature symbol for GNU objects
 1576 6901895 Failing asserts in ld update_osym() trying to build gcc 4.5 development
 1577 head
 1578 6909523 core dump when run "LD_DEBUG=help ls" in non-English locale
 1579 6903688 mdb(1) can't resolve certain symbols in solaris10-branded processes

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1580      from the global zone
1581 6923449 elfdump misinterprets __init__/_fini symbols in dynamic section test
1582 6914728 Add dl_iterate_phdr() function to ld.so.1 (D)
1583 PSARC/2010/015 dl_iterate_phdr
1584 6916788 ld version 2 mapfile syntax (D)
1585 PSARC/2009/688 Human readable and extensible ld mapfile syntax
1586 ld generates incorrect VERDEF entries for ET_REL output objects
1587 6924224 linker should ignore SUNW_dof when calculating the elf checksum
1588 6918143 symbol capabilities (D)
1589 PSARC/2010/022 Linker-editors: Symbol Capabilities
1590 6910387 .tdata and .tbss separation invalidates TLS program header information
1591 6934123 elfdump -d core dumps on PA-RISC elf
1592 6931044 ld should not allow SHT_PROGBITS .eh_frame sections on amd64 (D)
1593 6931056 pvs -r output can include empty versions in output
1594 6938628 ld.so.1 should produce diagnostics for all dl*() entry points
1595 6938111 nm 'No symbol table data' message goes to stdout
1596 6941727 ld relocation cache memory use is excessive
1597 6932220 ld -z allextact skips objects that lack global symbols
1598 6943772 Testing for a symbols existence with RTLD_PROBE is compromised by
1599 RTLD BIND_NOW
1600 PSARC/2010/XXX Deferred symbol references
1601 6943432 dlsym(RTLD_PROBE) should only bind to symbol definitions
1602 6668759 an external method for determining whether an ELF dependency is optional
1603 6954032 Support library with ld_open and -z allextact in svn_139 do not mix
1604 6949596 wrong section alignment generated in joint compilation with shared
1605 library
1606 6961755 ld.so.1's -e arguments should take precedence over environment
1607 variables. (D)
1608 6748925 moe returns wrong hwcap library in some circumstances
1609 6916796 OSnet mapfiles should use version 2 link-editor syntax
1610 6964517 OSnet mapfiles should use version 2 link-editor syntax (2nd pass)
1611 6948720 SHT_INIT_ARRAY etc. section names don't follow ELF gABI (D)
1612 6962343 sgsmsg should use mkstemp() for temporary file creation
1613 6965723 libsoftcrypto symbol capabilities rely on compiler generated
1614 capabilities - gcc failure (link-editor components only)
1615 6952219 ld support for archives larger than 2 GB (D, P)
1616 PSARC/2010/224 Support for archives larger than 2 GB
1617 6956152 disclose() from an auditor can be fatal. Preinit/activity events should
1618 be more flexible. (D)
1619 6971440 moe can core dump while processing libc.
1620 6972234 sgs demo's could use some cleanup
1621 6935867 .dynamic could be readonly in sharable objects
1622 6975290 ld mishandles GOT relocation against local ABS symbol
1623 6972860 ld should provide user guidance to improve objects (D)
1624 PSARC/2010/312 Link-editor guidance
1625 -----
1626 -----
1627 -----
1628 Illumos
1629 -----
1630 Bugid Risk Synopsis
1631 =====

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1633 308 ld may misalign sections only preceded by empty sections
1634 1301 ld crashes with '-z ignore' due to a null data descriptor
1635 1626 libld may accidentally return success while failing
1636 2413 %sym* need to be preserved on way through PLT
1637 3210 ld should tolerate SHT_PROGBITS for .eh_frame sections on amd64
1638 3228 Want -zassert-deflib for ld
1639 3230 ld.so.1 should check default paths for DT_DEPAUDIT
1640 3260 linker is insufficiently careful with strtok
1641 3261 linker should ignore unknown hardware capabilities
1642 3265 link-editor builds bogus .eh_frame_hdr on ia32
1643 3453 GNU comdat redirection does exactly the wrong thing
1644 3439 discarded sections shouldn't end up on output lists
1645 3436 relocatable objects also need sloppy relocation

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1646 3451 archive libraries with no symbols shouldn't require a string table
1647 3616 SHF_GROUP sections should not be discarded via other COMDAT mechanisms
1648 3709 need sloppy relocation for GNU .debug_macro
1649 3722 link-editor is over restrictive of R_AMD64_32 addends
1650 3926 multiple extern map file definitions corrupt symbol table entry
1651 3999 libld extended section handling is broken
1652 4003 dldump() can't deal with extended sections
1653 4227 ld --library-path is translated to -L-path, not -L
1654 4270 ld(1) argument error reporting is still pretty bad
1655 4383 libelf can't write extended sections when ELF_F_LAYOUT
1656 4959 completely discarded merged string sections will corrupt output objects
1657 4996 rtld _init race leads to incorrect symbol values
1658 5688 ELF tools need to be more careful with dwarf data
1659 6098 ld(1) should not require symbols which identify group sections be global
1660 6252 ld should merge function/data-sections in the same manner as GNU ld
1661 7323 ld(1) -zignore can erroneously discard init and fini arrays as unreferen
1662 7594 ld -zaslr should accept Solaris-compatible values
1663 #endif /* ! codereview */

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