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*****
24725 Tue Dec 10 20:23:53 2013
new/usr/src/cmd/sgs/libelf/common/update.c
4383 libelf can't write extended sections when ELF_F_LAYOUT
*****
_____unchanged_portion_omitted_____

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340 static size_t
341 _elf_upd_usr(Elf * elf)
342 {
343     NOTE(ASSUMING_PROTECTED(*elf))
344     Lword    hi;
345     Elf_Scn * s;
346     register Lword  sz;
347     Ehdr *    eh = elf->ed_ehdr;
348     unsigned  ver = eh->e_version;
349     register char *p = (char *)eh->e_ident;
350     size_t    scncnt;

352     /*
353      * Ehdr and Phdr table go first
354      */
355     p[EI_MAG0] = ELFMAG0;
356     p[EI_MAG1] = ELFMAG1;
357     p[EI_MAG2] = ELFMAG2;
358     p[EI_MAG3] = ELFMAG3;
359     p[EI_CLASS] = ELFCLASS;
360     /* LINTED */
361     p[EI_VERSION] = (Byte)ver;
362     hi = elf_fsize(ELF_T_EHDR, 1, ver);
363     /* LINTED */
364     eh->e_ehsize = (Half)hi;

366     /*
367      * If phnum is zero, phoff "should" be zero too,
368      * but the application is responsible for it.
369      * Allow a non-zero value here and update the
370      * hi water mark accordingly.
371      */

373     if (eh->e_phnum != 0)
374         /* LINTED */
375         eh->e_phentsize = (Half)elf_fsize(ELF_T_PHDR, 1, ver);
376     else
377         eh->e_phentsize = 0;
378     if ((sz = eh->e_phoff + eh->e_phentsize * eh->e_phnum) > hi)
379         hi = sz;

381     /*
382      * Loop through sections, skipping index zero.
383      * Compute section size before changing hi.
384      * Allow null buffers for NOBITS.
385      */

387     if ((s = elf->ed_hdscn) == 0) {
388         if ((s = elf->ed_hdscn) == 0)
389             eh->e_shnum = 0;
390         scncnt = 0;
391     } else {
392         scncnt = 1;
393     }
394     else {
395         eh->e_shnum = 1;
396         *(Shdr*)s->s_shdr = _elf_snode_init.sb_shdr;

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392         s = s->s_next;
393     }
394     for (; s != 0; s = s->s_next) {
395         register Dnode *d;
396         register Lword fsz, j;
397         Shdr *sh = s->s_shdr;

399         if ((s->s_myflags & SF_READY) == 0)
400             (void) _elfxx_cookscn(s);

402         ++scncnt;
403         ++eh->e_shnum;
404         sz = 0;
405         for (d = s->s_hdnode; d != 0; d = d->db_next) {
406             if ((fsz = elf_fsize(d->db_data.d_type, 1,
407                 ver)) == 0)
408                 return (0);
409             j = _elf_msize(d->db_data.d_type, ver);
410             fsz *= (d->db_data.d_size / j);
411             d->db_osz = (size_t)fsz;

412             if ((sh->sh_type != SHT_NOBITS) &&
413                 ((j = (d->db_data.d_off + d->db_osz)) > sz))
414                 sz = j;

415         }
416         if (sh->sh_size < sz) {
417             _elf_seterr(EFMT_SCNSZ, 0);
418             return (0);
419         }
420         if ((sh->sh_type != SHT_NOBITS) &&
421             (hi < sh->sh_offset + sh->sh_size))
422             hi = sh->sh_offset + sh->sh_size;
423     }

425     /*
426      * Shdr table last. Comment above for phnum/phoff applies here.
427      */
428     if (scncnt != 0) {
429         if (eh->e_shnum != 0)
430             /* LINTED */
431             eh->e_shentsize = (Half)elf_fsize(ELF_T_SHDR, 1, ver);
432         if (scncnt < SHN_LORESERVE) {
433             eh->e_shnum = scncnt;
434         } else {
435             Shdr *sh;
436             sh = (Shdr *)elf->ed_hdscn->s_shdr;
437             sh->sh_size = scncnt;
438             eh->e_shnum = 0;
439         }
440     } else {
441         eh->e_shentsize = 0;
442     }
443     #endif /* ! codereview */

444     if ((sz = eh->e_shoff + eh->e_shentsize * scncnt) > hi)
445         if ((sz = eh->e_shoff + eh->e_shentsize * eh->e_shnum) > hi)
446             hi = sz;

447 #ifdef TEST_SIZE
448     if (test_size(hi) == 0)
449         return (0);
450 #endif

452     return ((size_t)hi);
453 }
_____unchanged_portion_omitted_____

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