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*****
77394 Thu Aug 1 18:13:05 2013
new/usr/src/cmd/mdb/common/mdb/mdb_print.c
3953 Calling ::list without specifying the name of the next member causes mdb to
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*****
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30 */

31 #include <mdb/mdb_modapi.h>
32 #include <mdb/mdb_target.h>
33 #include <mdb/mdb_argvec.h>
34 #include <mdb/mdb_string.h>
35 #include <mdb/mdb_stdlib.h>
36 #include <mdb/mdb_err.h>
37 #include <mdb/mdb_debug.h>
38 #include <mdb/mdb_fmt.h>
39 #include <mdb/mdb_ctf.h>
40 #include <mdb/mdb_ctf_impl.h>
41 #include <mdb/mdb.h>
42 #include <mdb/mdb_tab.h>

44 #include <sys/isa_defs.h>
45 #include <sys/param.h>
46 #include <sys/sysmacros.h>
47 #include <netinet/in.h>
48 #include <strings.h>
49 #include <libctf.h>
50 #include <ctype.h>

52 typedef struct holeinfo {
53     ulong_t hi_offset;           /* expected offset */
54     uchar_t hi_isunion;         /* represents a union */
55 } holeinfo_t;
56 #define HOLEINFO_UNCHANGED_PORTION_OMITTED
696 /*ARGSUSED*/

```

```

697 int
698 cmd_list(uintptr_t addr, uint_t flags, int argc, const mdb_arg_t *argv)
699 {
700     int offset;
701     uintptr_t a, tmp;
702     int ret;

704     if (!(flags & DCMD_ADDRSPEC) || argc == 0)
705         return (DCMD_USAGE);

707     if (argv->a_type != MDB_TYPE_STRING) {
708         /*
709          * We are being given a raw offset in lieu of a type and
710          * member; confirm the number of arguments and argument
711          * type.
712          * member; confirm the arguments.
713          */
714         if (argc != 1 || argv->a_type != MDB_TYPE_IMMEDIATE)
715             if (argv->a_type != MDB_TYPE_IMMEDIATE)
716                 return (DCMD_USAGE);

718         offset = argv->a_un.a_val;
719         argv++;
720         argc--;

722         if (offset % sizeof (uintptr_t)) {
723             mdb_warn("offset must fall on a word boundary\n");
724             return (DCMD_ABORT);
725         } else {
726             const char *member;
727             char buf[MDB_SYM_NAMLEN];
728             int ret;

730             /*
731              * Check that we were provided 2 arguments: a type name
732              * and a member of that type.
733              */
734             if (argc != 2)
735                 return (DCMD_USAGE);

737             ret = args_to_typename(&argc, &argv, buf, sizeof (buf));
738             if (ret != 0)
739                 return (ret);

741             argv++;
742             argc--;

744             member = argv->a_un.a_str;
745             offset = mdb_ctf_offsetof_by_name(buf, member);
746             if (offset == -1)
747                 return (DCMD_ABORT);

749             argv++;
750             argc--;

752             if (offset % (sizeof (uintptr_t)) != 0) {
753                 mdb_warn("%s is not a word-aligned member\n", member);
754                 return (DCMD_ABORT);
755             }
756         }

758     /*
759      * If we have any unchewed arguments, a variable name must be present.
760      */

```

```
761     if (argc == 1) {
762         if (argv->a_type != MDB_TYPE_STRING)
763             return (DCMD_USAGE);
764
765         if ((ret = setup_vcb(argv->a_un.a_str, addr)) != 0)
766             return (ret);
767
768     } else if (argc != 0) {
769         return (DCMD_USAGE);
770     }
771
772     a = addr;
773
774     do {
775         mdb_printf("%lr\n", a);
776
777         if (mdb_vread(&tmp, sizeof (tmp), a + offset) == -1) {
778             mdb_warn("failed to read next pointer from object %p",
779                 a);
780             return (DCMD_ERR);
781         }
782
783         a = tmp;
784     } while (a != addr && a != NULL);
785
786     return (DCMD_OK);
787 }
```

unchanged portion omitted