```
        .file   "Array.c"
        .stabs  "gcc2_compiled.", 0x3c, 0, 0, 0
.stabs "/home/mac/yoshi/www/mac324/exx/quick_fiddled/",100,0,0,.LLtext0
.stabs "Array.c",100,0,0,.LLtext0
.section        ".text"
.LLtext0:
.stabs "int:t1=r1;-2147483648;2147483647;",128,0,0,0
.stabs "char:t2=r2;0;127;",128,0,0,0
.stabs "long int:t3=r1;-2147483648;2147483647;",128,0,0,0
.stabs "unsigned int:t4=r1;0;-1;",128,0,0,0
.stabs "long unsigned int:t5=r1;0;-1;",128,0,0,0
.stabs "long long int:t6=r1;01000000000000000000000;0777777777777777777777;",128,0,0,0
.stabs "long long unsigned int:t7=r1;0000000000000;01777777777777777777777;",128,0,0,0
.stabs "short int:t8=r1;-32768;32767;",128,0,0,0
.stabs "short unsigned int:t9=r1;0;65535;",128,0,0,0
.stabs "signed char:t10=r1;-128;127;",128,0,0,0
.stabs "unsigned char:t11=r1;0;255;",128,0,0,0
.stabs "float:t12=r1;4;0;",128,0,0,0
.stabs "double:t13=r1;8;0;",128,0,0,0
.stabs "long double:t14=r1;16;0;",128,0,0,0
.stabs "complex int:t15=s8real:1,0,32;imag:1,32,32;;",128,0,0,0
.stabs "complex float:t16=r16;4;0;",128,0,0,0
.stabs "complex double:t17=r17;8;0;",128,0,0,0
.stabs "complex long double:t18=r18;16;0;",128,0,0,0
.stabs "void:t19=19",128,0,0,0
.stabs "size_t:t4",128,0,25,0
.stabs "fpos_t:t3",128,0,28,0
.stabs "FILE:t20=s16_cnt:1,0,32;_ptr:21=*11,32,32;_base:21,64,32;_flag:11,96,8;_file:11,104,
8;;",128,0,137,0
.stabs "div_t:t22=s8quot:1,0,32;rem:1,32,32;;",128,0,27,0
.stabs "ldiv_t:t23=s8quot:3,0,32;rem:3,32,32;;",128,0,32,0
.stabs "lldiv_t:t24=s16quot:6,0,64;rem:6,64,64;;",128,0,38,0
.stabs "uid_t:t3",128,0,51,0
.stabs "wchar_t:t3",128,0,67,0
.stabs "Item:t13",128,0,5,0
        .align 4
.stabs "randinit:F19",36,0,10,randinit
.stabs "a:p25=*13",160,0,9,68
.stabs "N:p1",160,0,9,72
        .global randinit
        .type    randinit,#function
        .proc   020
randinit:
.stabn 68,0,10,.LM1-randinit
.LM1:
        !#PROLOGUE# 0
        save %sp,-120,%sp
        !#PROLOGUE# 1
        st %i0,[%fp+68]
        st %i1,[%fp+72]
.stabn 68,0,10,.LM2-randinit
.LM2:
.LLBB2:
.stabn 68,0,11,.LM3-randinit
.LM3:
        st %g0,[%fp-20]
.LL2:
        ld [%fp-20],%o0
        ld [%fp+72],%o1
        cmp %o0,%o1
        bl .LL5
        nop
        b .LL3
        nop
```

```
.LL5:
        call ITEMrand,0
        nop
        fmovs %f0,%f2
        fmovs %f1,%f3
        ld [%fp-20],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        std %f2,[%o0]
.LL4:
        ld [%fp-20],%o1
        add %o1,1,%o0
        mov %o0,%o1
        st %o1,[%fp-20]
        b .LL2
        nop
.LL3:
.stabn 68,0,12,.LM4-randinit
.LM4:
.LLBE2:
.stabn 68,0,12,.LM5-randinit
.LM5:
.LL1:
        ret
        restore
.LLfe1:
        .size    randinit,.LLfe1-randinit
.stabs "i:1",128,0,10,-20
.stabn 192,0,0,.LLBB2-randinit
.stabn 224,0,0,.LLBE2-randinit
        .align 4
.stabs "scaninit:F19",36,0,14,scaninit
.stabs "a:p25",160,0,13,68
.stabs "N:p26=*1",160,0,13,72
        .global scaninit
        .type    scaninit,#function
        .proc   020
scaninit:
.stabn 68,0,14,.LM6-scaninit
.LM6:
        !#PROLOGUE# 0
        save %sp,-120,%sp
        !#PROLOGUE# 1
        st %i0,[%fp+68]
        st %i1,[%fp+72]
.stabn 68,0,14,.LM7-scaninit
.LM7:
.LLBB3:
        st %g0,[%fp-20]
.stabn 68,0,15,.LM8-scaninit
.LM8:
        st %g0,[%fp-20]
.LL7:
        ld [%fp+72],%o0
        ld [%fp-20],%o1
        ld [%o0],%o0
        cmp %o1,%o0
        bl .LL10
        nop
        b .LL8
        nop
.LL10:
```

```
.stabn 68,0,16,.LM9-scaninit
.LM9:
        ld [%fp-20],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o2
        add %o0,%o2,%o1
        mov %o1,%o0
        call ITEMscan,0
        nop
        cmp %o0,-1
        bne .LL9
        nop
        b .LL8
        nop
.LL11:
.stabn 68,0,15,.LM10-scaninit
.LM10:
.LL9:
        ld [%fp-20],%o1
        add %o1,1,%o0
        mov %o0,%o1
        st %o1,[%fp-20]
        b .LL7
        nop
.LL8:
.stabn 68,0,17,.LM11-scaninit
.LM11:
        ld [%fp+72],%o0
        ld [%fp-20],%o1
        st %o1,[%o0]
.stabn 68,0,18,.LM12-scaninit
.LM12:
.LLBE3:
.stabn 68,0,18,.LM13-scaninit
.LM13:
.LL6:
        ret
        restore
.LLfe2:
        .size    scaninit,.LLfe2-scaninit
.stabs "i:1",128,0,14,-20
.stabn 192,0,0,.LLBB3-scaninit
.stabn 224,0,0,.LLBE3-scaninit
.section        ".rodata"
        .align 8
.LLC0:
        .asciz  "\n"
.section        ".text"
        .align 4
.stabs "show:F19",36,0,20,show
.stabs "a:p25",160,0,19,68
.stabs "l:p1",160,0,19,72
.stabs "r:p1",160,0,19,76
        .global show
        .type    show,#function
        .proc   020
show:
.stabn 68,0,20,.LM14-show
.LM14:
        !#PROLOGUE# 0
        save %sp,-120,%sp
        !#PROLOGUE# 1
        st %i0,[%fp+68]
```

```
        st %i1,[%fp+72]
        st %i2,[%fp+76]
.stabn 68,0,20,.LM15-show
.LM15:
.LLBB4:
.stabn 68,0,21,.LM16-show
.LM16:
        ld [%fp+72],%o0
        st %o0,[%fp-20]
.LL13:
        ld [%fp-20],%o0
        ld [%fp+76],%o1
        cmp %o0,%o1
        ble .LL16
        nop
        b .LL14
        nop
.LL16:
        ld [%fp-20],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o2
        ldd [%o2],%o0
        call ITEMshow,0
        nop
.LL15:
        ld [%fp-20],%o1
        add %o1,1,%o0
        mov %o0,%o1
        st %o1,[%fp-20]
        b .LL13
        nop
.LL14:
.stabn 68,0,22,.LM17-show
.LM17:
        sethi %hi(.LLC0),%o1
        or %o1,%lo(.LLC0),%o0
        call printf,0
        nop
.stabn 68,0,23,.LM18-show
.LM18:
.LLBE4:
.stabn 68,0,23,.LM19-show
.LM19:
.LL12:
        ret
        restore
.LLfe3:
        .size    show,.LLfe3-show
.stabs "i:1",128,0,20,-20
.stabn 192,0,0,.LLBB4-show
.stabn 224,0,0,.LLBE4-show
        .global n_comp
.section        ".data"
.stabs "n_comp:G3",32,0,5,0
        .align 4
        .type    n_comp,#object
        .size    n_comp,4
n_comp:
        .word   0
        .global M
.stabs "M:G3",32,0,7,0
        .align 4
```

```
        .type    M,#object
        .size    M,4
M:
        .word   11
.section        ".text"
        .align 4
.stabs "sort:F19",36,0,10,sort
.stabs "a:p25",160,0,9,68
.stabs "l:p1",160,0,9,72
.stabs "r:p1",160,0,9,76
        .global sort
        .type    sort,#function
        .proc   020
sort:
.stabs "sort.c",132,0,0,.LLtext1
.LLtext1:
.stabn 68,0,10,.LM20-sort
.LM20:
        !#PROLOGUE# 0
        save %sp,-136,%sp
        !#PROLOGUE# 1
        st %i0,[%fp+68]
        st %i1,[%fp+72]
        st %i2,[%fp+76]
.stabn 68,0,11,.LM21-sort
.LM21:
.LLBB5:
        ld [%fp+76],%o0
        ld [%fp+72],%o1
        sub %o0,%o1,%o0
        sethi %hi(M),%o1
        ld [%o1+%lo(M)],%o2
        cmp %o0,%o2
        bg .LL18
        nop
.stabn 68,0,12,.LM22-sort
.LM22:
.LLBB6:
.stabn 68,0,14,.LM23-sort
.LM23:
        ld [%fp+72],%o0
        add %o0,1,%o1
        st %o1,[%fp-20]
.LL19:
        ld [%fp-20],%o0
        ld [%fp+76],%o1
        cmp %o0,%o1
        ble .LL22
        nop
        b .LL20
        nop
.LL22:
.stabn 68,0,15,.LM24-sort
.LM24:
        ld [%fp-20],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ldd [%o0],%o2
        std %o2,[%fp-32]
        ld [%fp-20],%o0
        add %o0,-1,%o1
        st %o1,[%fp-24]
```

```
.stabn 68,0,16,.LM25-sort
.LM25:
.LL23:
        sethi %hi(n_comp),%o1
        sethi %hi(n_comp),%o0
        sethi %hi(n_comp),%o1
        ld [%o1+%lo(n_comp)],%o2
        add %o2,1,%o1
        mov %o1,%o2
        st %o2,[%o0+%lo(n_comp)]
        ld [%fp-24],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ldd [%fp-32],%f2
        ldd [%o0],%f4
        fcmped %f2,%f4
        nop
        fbl .LL25
        nop
        b .LL24
        nop
.LL25:
.stabn 68,0,17,.LM26-sort
.LM26:
        ld [%fp-24],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ld [%fp-24],%o1
        mov %o1,%o2
        sll %o2,3,%o1
        ld [%fp+68],%o2
        add %o1,%o2,%o1
        ldd [%o1],%o2
        std %o2,[%o0+8]
        ld [%fp-24],%o1
        add %o1,-1,%o0
        mov %o0,%o1
        st %o1,[%fp-24]
        b .LL23
        nop
.LL24:
.stabn 68,0,18,.LM27-sort
.LM27:
        ld [%fp-24],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ldd [%fp-32],%o2
        std %o2,[%o0+8]
.stabn 68,0,14,.LM28-sort
.LM28:
.LL21:
        ld [%fp-20],%o1
        add %o1,1,%o0
        mov %o0,%o1
        st %o1,[%fp-20]
        b .LL19
        nop
.LL20:
```

```
.stabn 68,0,20,.LM29-sort
.LM29:
.LLBE6:
        b .LL26
        nop
.LL18:
.stabn 68,0,21,.LM30-sort
.LM30:
.LLBB7:
        ld [%fp+72],%o0
        add %o0,-1,%o1
        st %o1,[%fp-24]
        ld [%fp+76],%o0
        st %o0,[%fp-20]
        ld [%fp+76],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ldd [%o0],%o2
        std %o2,[%fp-32]
.LL27:
.stabn 68,0,23,.LM31-sort
.LM31:
.LL30:
        sethi %hi(n_comp),%o1
        sethi %hi(n_comp),%o0
        sethi %hi(n_comp),%o1
        ld [%o1+%lo(n_comp)],%o2
        add %o2,1,%o1
        mov %o1,%o2
        st %o2,[%o0+%lo(n_comp)]
        ld [%fp-24],%o1
        add %o1,1,%o0
        mov %o0,%o1
        st %o1,[%fp-24]
        mov %o1,%o0
        sll %o0,3,%o1
        ld [%fp+68],%o2
        add %o1,%o2,%o0
        ldd [%o0],%f2
        ldd [%fp-32],%f4
        fcmped %f2,%f4
        nop
        fbl .LL32
        nop
        b .LL31
        nop
.LL32:
        b .LL30
        nop
.LL31:
.stabn 68,0,24,.LM32-sort
.LM32:
.LL33:
        sethi %hi(n_comp),%o1
        sethi %hi(n_comp),%o0
        sethi %hi(n_comp),%o1
        ld [%o1+%lo(n_comp)],%o2
        add %o2,1,%o1
        mov %o1,%o2
        st %o2,[%o0+%lo(n_comp)]
        ld [%fp-20],%o1
        add %o1,-1,%o0
```

```
        mov %o0,%o1
        st %o1,[%fp-20]
        mov %o1,%o0
        sll %o0,3,%o1
        ld [%fp+68],%o2
        add %o1,%o2,%o0
        ldd [%fp-32],%f2
        ldd [%o0],%f4
        fcmped %f2,%f4
        nop
        fbl .LL35
        nop
        b .LL34
        nop
.LL35:
        b .LL33
        nop
.LL34:
.stabn 68,0,25,.LM33-sort
.LM33:
.LLBB8:
        ld [%fp-24],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ldd [%o0],%o2
        std %o2,[%fp-40]
        ld [%fp-24],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ld [%fp-20],%o1
        mov %o1,%o2
        sll %o2,3,%o1
        ld [%fp+68],%o2
        add %o1,%o2,%o1
        ldd [%o1],%o2
        std %o2,[%o0]
        ld [%fp-20],%o0
        mov %o0,%o1
        sll %o1,3,%o0
        ld [%fp+68],%o1
        add %o0,%o1,%o0
        ldd [%fp-40],%o2
        std %o2,[%o0]
.LLBE8:
.stabn 68,0,26,.LM34-sort
.LM34:
.LL29:
        ld [%fp-24],%o0
        ld [%fp-20],%o1
        cmp %o0,%o1
        bl .LL36
        nop
        b .LL28
        nop
.LL36:
        b .LL27
        nop
.LL28:
.stabn 68,0,27,.LM35-sort
.LM35:
```

```
.LLBB9:
	ld [%fp-24],%o0
	mov %o0,%o1
	sll %o1,3,%o0
	ld [%fp+68],%o1
	add %o0,%o1,%o0
	ldd [%o0],%o2
	std %o2,[%fp-40]
	ld [%fp-24],%o0
	mov %o0,%o1
	sll %o1,3,%o0
	ld [%fp+68],%o1
	add %o0,%o1,%o0
	ld [%fp-20],%o1
	mov %o1,%o2
	sll %o2,3,%o1
	ld [%fp+68],%o2
	add %o1,%o2,%o1
	ldd [%o1],%o2
	std %o2,[%o0]
	ld [%fp-20],%o0
	mov %o0,%o1
	sll %o1,3,%o0
	ld [%fp+68],%o1
	add %o0,%o1,%o0
	ldd [%fp-40],%o2
	std %o2,[%o0]
.LLBE9:
.stabn 68,0,28,.LM36-sort
.LM36:
.LLBB10:
	ld [%fp-24],%o0
	mov %o0,%o1
	sll %o1,3,%o0
	ld [%fp+68],%o1
	add %o0,%o1,%o0
	ldd [%o0],%o2
	std %o2,[%fp-40]
	ld [%fp-24],%o0
	mov %o0,%o1
	sll %o1,3,%o0
	ld [%fp+68],%o1
	add %o0,%o1,%o0
	ld [%fp+76],%o1
	mov %o1,%o2
	sll %o2,3,%o1
	ld [%fp+68],%o2
	add %o1,%o2,%o1
	ldd [%o1],%o2
	std %o2,[%o0]
	ld [%fp+76],%o0
	mov %o0,%o1
	sll %o1,3,%o0
	ld [%fp+68],%o1
	add %o0,%o1,%o0
	ldd [%fp-40],%o2
	std %o2,[%o0]
.LLBE10:
.stabn 68,0,29,.LM37-sort
.LM37:
	ld [%fp-24],%o0
	add %o0,-1,%o2
	ld [%fp+68],%o0
	ld [%fp+72],%o1
```

```
        call sort,0
        nop
.stabn 68,0,30,.LM38-sort
.LM38:
        ld [%fp-24],%o0
        add %o0,1,%o1
        ld [%fp+68],%o0
        ld [%fp+76],%o2
        call sort,0
        nop
.stabn 68,0,31,.LM39-sort
.LM39:
.LLBE7:
.LL26:
.stabn 68,0,32,.LM40-sort
.LM40:
.LLBE5:
.stabn 68,0,32,.LM41-sort
.LM41:
.LL17:
        ret
        restore
.LLfe4:
        .size    sort,.LLfe4-sort
.stabn 192,0,0,.LLBB5-sort
.stabs "i:3",128,0,12,-20
.stabs "j:3",128,0,12,-24
.stabs "v:13",128,0,13,-32
.stabn 192,0,0,.LLBB6-sort
.stabn 224,0,0,.LLBE6-sort
.stabs "i:1",128,0,21,-24
.stabs "j:1",128,0,21,-20
.stabs "v:13",128,0,21,-32
.stabn 192,0,0,.LLBB7-sort
.stabs "t:13",128,0,25,-40
.stabn 192,0,0,.LLBB8-sort
.stabn 224,0,0,.LLBE8-sort
.stabs "t:13",128,0,27,-40
.stabn 192,0,0,.LLBB9-sort
.stabn 224,0,0,.LLBE9-sort
.stabs "t:13",128,0,28,-40
.stabn 192,0,0,.LLBB10-sort
.stabn 224,0,0,.LLBE10-sort
.stabn 224,0,0,.LLBE7-sort
.stabn 224,0,0,.LLBE5-sort
        .text
        .stabs "",100,0,0,.Letext
.Letext:
        .ident  "GCC: (GNU) 2.7.2"
```