

array_test_deb7: file format elf64-x86-64

Disassembly of section .init:

000000000400470 <_init>:

```
_init():
400470: 48 83 ec 08      sub    $0x8,%rsp
400474: e8 93 00 00 00  callq 40050c <call_gmon_start>
400479: 48 83 c4 08      add    $0x8,%rsp
40047d: c3              retq
```

Disassembly of section .plt:

000000000400480 <free@plt-0x10>:

```
400480: ff 35 72 07 20 00  pushq 0x200772(%rip)      # 600bf8 <_GLOBAL_OFFSET_TABLE_+0x8>
400486: ff 25 74 07 20 00  jmpq   *0x200774(%rip)      # 600c00 <_GLOBAL_OFFSET_TABLE_+0x10>
40048c: 0f 1f 40 00      nopl  0x0(%rax)
```

000000000400490 <free@plt>:

```
400490: ff 25 72 07 20 00  jmpq   *0x200772(%rip)      # 600c08 <_GLOBAL_OFFSET_TABLE_+0x18>
400496: 68 00 00 00 00 00  pushq  $0x0
40049b: e9 e0 ff ff ff    jmpq   400480 <_init+0x10>
```

0000000004004a0 <putchar@plt>:

```
4004a0: ff 25 6a 07 20 00  jmpq   *0x20076a(%rip)      # 600c10 <_GLOBAL_OFFSET_TABLE_+0x20>
4004a6: 68 01 00 00 00 00  pushq  $0x1
4004ab: e9 d0 ff ff ff    jmpq   400480 <_init+0x10>
```

0000000004004b0 <printf@plt>:

```
4004b0: ff 25 62 07 20 00  jmpq   *0x200762(%rip)      # 600c18 <_GLOBAL_OFFSET_TABLE_+0x28>
4004b6: 68 02 00 00 00 00  pushq  $0x2
4004bb: e9 c0 ff ff ff    jmpq   400480 <_init+0x10>
```

0000000004004c0 <__libc_start_main@plt>:

```
4004c0: ff 25 5a 07 20 00  jmpq   *0x20075a(%rip)      # 600c20 <_GLOBAL_OFFSET_TABLE_+0x30>
4004c6: 68 03 00 00 00 00  pushq  $0x3
4004cb: e9 b0 ff ff ff    jmpq   400480 <_init+0x10>
```

0000000004004d0 <malloc@plt>:

```
4004d0: ff 25 52 07 20 00  jmpq   *0x200752(%rip)      # 600c28 <_GLOBAL_OFFSET_TABLE_+0x38>
4004d6: 68 04 00 00 00 00  pushq  $0x4
4004db: e9 a0 ff ff ff    jmpq   400480 <_init+0x10>
```

Disassembly of section .text:

0000000004004e0 <_start>:

```
_start():
4004e0: 31 ed          xor    %ebp,%ebp
4004e2: 49 89 d1      mov    %rdx,%r9
4004e5: 5e          pop    %rsi
4004e6: 48 89 e2      mov    %rsp,%rdx
4004e9: 48 83 e4 f0    and    $0xfffffffffffff0,%rsp
4004ed: 50          push   %rax
4004ee: 54          push   %rsp
4004ef: 49 c7 c0 20 08 40 00  mov    $0x400820,%r8
4004f6: 48 c7 c1 30 08 40 00  mov    $0x400830,%rcx
4004fd: 48 c7 c7 59 07 40 00  mov    $0x400759,%rdi
400504: e8 b7 ff ff ff    callq 4004c0 <__libc_start_main@plt>
400509: f4          hlt
40050a: 90          nop
40050b: 90          nop
```

00000000040050c <call_gmon_start>:

```
call_gmon_start():
40050c: 48 83 ec 08      sub    $0x8,%rsp
400510: 48 8b 05 d1 06 20 00  mov    0x2006d1(%rip),%rax      # 600be
8 <_DYNAMIC+0x1e0>
400517: 48 85 c0      test   %rax,%rax
40051a: 74 02      je     40051e <call_gmon_start+0x12>
40051c: ff d0      callq  *%rax
40051e: 48 83 c4 08      add    $0x8,%rsp
400522: c3      retq
400523: 90      nop
400524: 90      nop
400525: 90      nop
400526: 90      nop
400527: 90      nop
400528: 90      nop
400529: 90      nop
40052a: 90      nop
40052b: 90      nop
40052c: 90      nop
40052d: 90      nop
40052e: 90      nop
40052f: 90      nop
```

000000000400530 <deregister_tm_clones>:

```
deregister_tm_clones():
400530: b8 47 0c 60 00  mov    $0x600c47,%eax
400535: 55      push   %rbp
400536: 48 2d 40 0c 60 00  sub    $0x600c40,%rax
```

```
40053c: 48 83 f8 0e      cmp    $0xe,%rax
400540: 48 89 e5      mov    %rsp,%rbp
400543: 77 02      ja     400547 <deregister_tm_clones+0x17>
400545: 5d      pop    %rbp
400546: c3      retq
400547: b8 00 00 00 00 00  mov    $0x0,%eax
40054c: 48 85 c0      test   %rax,%rax
40054f: 74 f4      je     400545 <deregister_tm_clones+0x15>
400551: 5d      pop    %rbp
400552: bf 40 0c 60 00  mov    $0x600c40,%edi
400557: ff e0      jmpq   *%rax
400559: 0f 1f 80 00 00 00 00  nopl   0x0(%rax)
```

000000000400560 <register_tm_clones>:

```
register_tm_clones():
400560: b8 40 0c 60 00 00  mov    $0x600c40,%eax
400565: 55      push   %rbp
400566: 48 2d 40 0c 60 00  sub    $0x600c40,%rax
40056c: 48 c1 f8 03      sar    $0x3,%rax
400570: 48 89 e5      mov    %rsp,%rbp
400573: 48 89 c2      mov    %rax,%rdx
400576: 48 c1 ea 3f      shr    $0x3f,%rdx
40057a: 48 01 d0      add    %rdx,%rax
40057d: 48 89 c6      mov    %rax,%rsi
400580: 48 d1 fe      sar    %rsi
400583: 75 02      jne    400587 <register_tm_clones+0x27>
400585: 5d      pop    %rbp
400586: c3      retq
400587: ba 00 00 00 00 00  mov    $0x0,%edx
40058c: 48 85 d2      test   %rdx,%rdx
40058f: 74 f4      je     400585 <register_tm_clones+0x25>
400591: 5d      pop    %rbp
400592: bf 40 0c 60 00 00  mov    $0x600c40,%edi
400597: ff e2      jmpq   *%rdx
400599: 0f 1f 80 00 00 00 00  nopl   0x0(%rax)
```

0000000004005a0 <__do_global_dtors_aux>:

```
__do_global_dtors_aux():
4005a0: 80 3d 99 06 20 00 00  cmpb   $0x0,0x200699(%rip)      # 600c4
0 <__bss_start>
4005a7: 75 11      jne    4005ba <__do_global_dtors_aux+0x1a>
4005a9: 55      push   %rbp
4005aa: 48 89 e5      mov    %rsp,%rbp
4005ad: e8 7e ff ff ff    callq  400530 <deregister_tm_clones>
4005b2: 5d      pop    %rbp
4005b3: c6 05 86 06 20 00 01  movb   $0x1,0x200686(%rip)      # 600c4
0 <__bss_start>
4005ba: f3 c3      repz   retq
4005bc: 0f 1f 40 00      nopl   0x0(%rax)
```

0000000004005c0 <frame_dummy>:

```
frame_dummy():
4005c0: 48 83 3d 38 04 20 00  cmpq   $0x0,0x200438(%rip)      # 600a0
0 <__JCR_END__>
4005c7: 00      je     4005e5 <frame_dummy+0x25>
4005c8: 74 1b      je     4005ca <frame_dummy+0x25>
4005ca: b8 00 00 00 00 00  mov    $0x0,%eax
4005cf: 48 85 c0      test   %rax,%rax
4005d2: 74 11      je     4005e5 <frame_dummy+0x25>
4005d4: 55      push   %rbp
4005d5: bf 00 0a 60 00 00  mov    $0x600a00,%edi
4005da: 48 89 e5      mov    %rsp,%rbp
4005dd: ff d0      callq  *%rax
4005df: 5d      pop    %rbp
4005e0: e9 7b ff ff ff    jmpq   400560 <register_tm_clones>
4005e5: e9 76 ff ff ff    jmpq   400560 <register_tm_clones>
4005ea: 90      nop
4005eb: 90      nop
```

0000000004005ec <dead_compute01>:

```
dead_compute01():
/root/deadwriteBenchmark/dead_array_test/main.c:4
#include <stdio.h>
#include <stdlib.h>

int dead_compute01( int *a, int size){
4005ec: 55      push   %rbp
4005ed: 48 89 e5      mov    %rsp,%rbp
4005f0: 48 83 ec 30  sub    $0x30,%rsp
4005f4: 48 89 7d d8  mov    %rdi,-0x28(%rbp)
4005f8: 89 75 d4      mov    %esi,-0x2c(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:6

    int j=0 ;
4005fb: c7 45 fc 00 00 00 00  movl   $0x0,-0x4(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:7
    long count=0;
400602: 48 c7 45 f0 00 00 00  movq   $0x0,-0x10(%rbp)
400609: 00
/root/deadwriteBenchmark/dead_array_test/main.c:9

    for (j=0; j<size*3; j++){
40060a: c7 45 fc 00 00 00 00  movl   $0x0,-0x4(%rbp)
400611: e9 2a 01 00 00      jmpq   400740 <dead_compute01+0x154>
/root/deadwriteBenchmark/dead_array_test/main.c:11

        int i, tmp=0;
400616: c7 45 e8 00 00 00 00  movl   $0x0,-0x18(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:13
```

```
    for (i = 0; i<size; i++){
40061d: c7 45 ec 00 00 00 00    movl    $0x0, -0x14(%rbp)
400624: eb 2a                    jmp     400650 <dead_compute01+0x64>
/root/deadwriteBenchmark/dead_array_test/main.c:14
    a[i] = i*i-tmp;
400626: 8b 45 ec                mov     -0x14(%rbp), %eax
400629: 48 98                    cltq
40062b: 48 8d 14 85 00 00 00    lea     0x0(,%rax,4), %rdx
400632: 00
400633: 48 8b 45 d8             mov     -0x28(%rbp), %rax
400637: 48 01 c2                add     %rax, %rdx
40063a: 8b 45 ec                mov     -0x14(%rbp), %eax
40063d: 0f af 45 ec             imul    -0x14(%rbp), %eax
400641: 2b 45 e8                sub     -0x18(%rbp), %eax
400644: 89 02                    mov     %eax, (%rdx)
/root/deadwriteBenchmark/dead_array_test/main.c:15
    tmp += i;
400646: 8b 45 ec                mov     -0x14(%rbp), %eax
400649: 01 45 e8                add     %eax, -0x18(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:13

    for (j=0; j<size*3; j++){

        int i, tmp=0;

        for (i = 0; i<size; i++){
40064c: 83 45 ec 01            addl    $0x1, -0x14(%rbp)
400650: 8b 45 ec                mov     -0x14(%rbp), %eax
400653: 3b 45 d4                cmp     -0x2c(%rbp), %eax
400656: 7c ce                    jl      400626 <dead_compute01+0x3a>
/root/deadwriteBenchmark/dead_array_test/main.c:18
            a[i] = i*i-tmp;
            tmp += i;
        }

        printf("%s: %d\t", __FUNCTION__, a[(i+j)/4]);
400658: 8b 45 fc                mov     -0x4(%rbp), %eax
40065b: 8b 55 ec                mov     -0x14(%rbp), %edx
40065e: 01 d0                    add     %edx, %eax
400660: 8d 50 03                lea     0x3(%rax), %edx
400663: 85 c0                    test    %eax, %eax
400665: 0f 48 c2                cmovs   %edx, %eax
400668: c1 f8 02                sar     $0x2, %eax
40066b: 48 98                    cltq
40066d: 48 8d 14 85 00 00 00    lea     0x0(,%rax,4), %rdx
400674: 00
400675: 48 8b 45 d8             mov     -0x28(%rbp), %rax
400679: 48 01 d0                add     %rdx, %rax
40067c: 8b 00                    mov     (%rax), %eax
40067e: 89 c2                    mov     %eax, %edx
400680: be de 08 40 00          mov     $0x4008de, %esi
400685: bf cc 08 40 00          mov     $0x4008cc, %edi
40068a: b8 00 00 00 00          mov     $0x0, %eax
40068f: e8 1c fe ff ff          callq   4004b0 <printf@plt>
/root/deadwriteBenchmark/dead_array_test/main.c:19
        if(j%10 == 0) printf("\n");
400694: 8b 4d fc                mov     -0x4(%rbp), %ecx
400697: ba 67 66 66 66          mov     $0x66666667, %edx
40069c: 89 c8                    mov     %ecx, %eax
40069e: f7 ea                    imul    %edx
4006a0: c1 fa 02                sar     $0x2, %edx
4006a3: 89 c8                    mov     %ecx, %eax
4006a5: c1 f8 1f                sar     $0x1f, %eax
4006a8: 29 c2                    sub     %eax, %edx
4006aa: 89 d0                    mov     %edx, %eax
4006ac: c1 e0 02                shl     $0x2, %eax
4006af: 01 d0                    add     %edx, %eax
4006b1: 01 c0                    add     %eax, %eax
4006b3: 89 ca                    mov     %ecx, %edx
4006b5: 29 c2                    sub     %eax, %edx
4006b7: 85 d2                    test    %edx, %edx
4006b9: 75 da                    jne     4006c5 <dead_compute01+0xd9>
4006bb: bf 0a 00 00 00          mov     $0xa, %edi
4006c0: e8 db fd ff ff          callq   4004a0 <putchar@plt>
/root/deadwriteBenchmark/dead_array_test/main.c:21

        for (i = 0; i< size; i++){
4006c5: c7 45 ec 00 00 00 00    movl    $0x0, -0x14(%rbp)
4006cc: eb 3d                    jmp     40070b <dead_compute01+0x11f>
/root/deadwriteBenchmark/dead_array_test/main.c:22
            a[i] = i*i/2;
4006ce: 8b 45 ec                mov     -0x14(%rbp), %eax
4006d1: 48 98                    cltq
4006d3: 48 8d 14 85 00 00 00    lea     0x0(,%rax,4), %rdx
4006da: 00
4006db: 48 8b 45 d8             mov     -0x28(%rbp), %rax
4006df: 48 01 c2                add     %rax, %rdx
4006e2: 8b 45 ec                mov     -0x14(%rbp), %eax
4006e5: 0f af 45 ec             imul    -0x14(%rbp), %eax
4006e9: 89 c1                    mov     %eax, %ecx
4006eb: c1 e9 1f                shr     $0x1f, %ecx
4006ee: 01 c8                    add     %ecx, %eax
4006f0: d1 f8                    sar     %eax
4006f2: 89 02                    mov     %eax, (%rdx)
/root/deadwriteBenchmark/dead_array_test/main.c:23
            tmp = tmp + 2*i -200;
4006f4: 8b 45 ec                mov     -0x14(%rbp), %eax
4006f7: 8d 14 00                lea     (%rax,%rax,1), %edx
4006fa: 8b 45 e8                mov     -0x18(%rbp), %eax
```

```
4006fd: 01 d0                    add     %edx, %eax
4006ff: 2d c8 00 00 00          sub     $0xc8, %eax
400704: 89 45 e8                mov     %eax, -0x18(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:21
    }

    printf("%s: %d\t", __FUNCTION__, a[(i+j)/4]);
    if(j%10 == 0) printf("\n");

    for (i = 0; i< size; i++){
400707: 83 45 ec 01            addl    $0x1, -0x14(%rbp)
40070b: 8b 45 ec                mov     -0x14(%rbp), %eax
40070e: 3b 45 d4                cmp     -0x2c(%rbp), %eax
400711: 7c bb                    jl      4006ce <dead_compute01+0xe2>
/root/deadwriteBenchmark/dead_array_test/main.c:26
        a[i] = i*i/2;
        tmp = tmp + 2*i -200;
    }

    count += tmp * 2 - tmp / 3;
400713: 8b 45 e8                mov     -0x18(%rbp), %eax
400716: 8d 34 00                lea     (%rax,%rax,1), %esi
400719: 8b 4d e8                mov     -0x18(%rbp), %ecx
40071c: ba 56 55 55 55          mov     $0x55555556, %edx
400721: 89 c8                    mov     %ecx, %eax
400723: f7 ea                    imul    %edx
400725: 89 c8                    mov     %ecx, %eax
400727: c1 f8 1f                sar     $0x1f, %eax
40072a: 89 d1                    mov     %edx, %ecx
40072c: 29 c1                    sub     %eax, %ecx
40072e: 89 c8                    mov     %ecx, %eax
400730: 89 f2                    mov     %esi, %edx
400732: 29 c2                    sub     %eax, %edx
400734: 89 d0                    mov     %edx, %eax
400736: 48 98                    cltq
400738: 48 01 45 f0            add     %rax, -0x10(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:9
int dead_compute01( int *a, int size){

    int j=0 ;
    long count=0;

    for (j=0; j<size*3; j++){
40073c: 83 45 fc 01            addl    $0x1, -0x4(%rbp)
400740: 8b 55 d4                mov     -0x2c(%rbp), %edx
400743: 89 d0                    mov     %edx, %eax
400745: 01 c0                    add     %eax, %eax
400747: 01 d0                    add     %edx, %eax
400749: 3b 45 fc                cmp     -0x4(%rbp), %eax
40074c: 0f 8f c4 fe ff ff      jg      400616 <dead_compute01+0x2a>
/root/deadwriteBenchmark/dead_array_test/main.c:29
    }

    count += tmp * 2 - tmp / 3;

    }
    return 0;
400752: b8 00 00 00 00          mov     $0x0, %eax
/root/deadwriteBenchmark/dead_array_test/main.c:30
}

400757: c9                      leaveq
400758: c3                      retq

0000000000400759 <main>:
main():
/root/deadwriteBenchmark/dead_array_test/main.c:32

int main(){
400759: 55                      push    %rbp
40075a: 48 89 e5                mov     %rsp, %rbp
40075d: 48 83 ec 10             sub     $0x10, %rsp
/root/deadwriteBenchmark/dead_array_test/main.c:33
    int size = 2000;
400761: c7 45 f8 d0 07 00 00    movl    $0x7d0, -0x8(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:34
    int *a = malloc (size * sizeof(int));
400768: 8b 45 f8                mov     -0x8(%rbp), %eax
40076b: 48 98                    cltq
40076d: 48 c1 e0 02             shl     $0x2, %rax
400771: 48 89 c7                mov     %rax, %rdi
400774: e8 57 fd ff ff          callq   4004d0 <malloc@plt>
400779: 48 89 45 f0             mov     %rax, -0x10(%rbp)
/root/deadwriteBenchmark/dead_array_test/main.c:35
    dead_compute01( a, size);
40077d: 8b 55 f8                mov     -0x8(%rbp), %edx
400780: 48 8b 45 f0             mov     -0x10(%rbp), %rax
400784: 89 d6                    mov     %edx, %esi
400786: 48 89 c7                mov     %rax, %rdi
400789: e8 5e fe ff ff          callq   4005ec <dead_compute01>
/root/deadwriteBenchmark/dead_array_test/main.c:37
    int i;
    for (i = size-1; i>=0; i--){
40078e: 8b 45 f8                mov     -0x8(%rbp), %eax
400791: 83 e8 01                sub     $0x1, %eax
400794: 89 45 fc                mov     %eax, -0x4(%rbp)
400797: eb 5f                    jmp     4007f8 <main+0x9f>
/root/deadwriteBenchmark/dead_array_test/main.c:38
        printf("a[%d]=%d\t", i, a[i]);
400799: 8b 45 fc                mov     -0x4(%rbp), %eax
40079c: 48 98                    cltq
```

```
40079e: 48 8d 14 85 00 00 00    lea     0x0(,%rax,4),%rdx
4007a5: 00
4007a6: 48 8b 45 f0             mov     -0x10(%rbp),%rax
4007aa: 48 01 d0               add     %rdx,%rax
4007ad: 8b 10                 mov     (%rax),%edx
4007af: 8b 45 fc             mov     -0x4(%rbp),%eax
4007b2: 89 c6                 mov     %eax,%esi
4007b4: bf d4 08 40 00        mov     $0x4008d4,%edi
4007b9: b8 00 00 00 00        mov     $0x0,%eax
4007be: e8 ed fc ff ff        callq   4004b0 <printf@plt>
/root/deadwriteBenchmark/dead_array_test/main.c:39
    if(i%10==0) printf("\n");
4007c3: 8b 4d fc             mov     -0x4(%rbp),%ecx
4007c6: ba 67 66 66 66        mov     $0x66666667,%edx
4007cb: 89 c8                 mov     %ecx,%eax
4007cd: f7 ea               imul    %edx
4007cf: c1 fa 02             sar     $0x2,%edx
4007d2: 89 c8                 mov     %ecx,%eax
4007d4: c1 f8 1f             sar     $0x1f,%eax
4007d7: 29 c2                 sub     %eax,%edx
4007d9: 89 d0                 mov     %edx,%eax
4007db: c1 e0 02             shl     $0x2,%eax
4007de: 01 d0               add     %edx,%eax
4007e0: 01 c0               add     %eax,%eax
4007e2: 89 ca                 mov     %ecx,%edx
4007e4: 29 c2                 sub     %eax,%edx
4007e6: 85 d2                 test    %edx,%edx
4007e8: 75 0a                 jne     4007f4 <main+0x9b>
4007ea: bf 0a 00 00 00        mov     $0xa,%edi
4007ef: e8 ac fc ff ff        callq   4004a0 <putchar@plt>
/root/deadwriteBenchmark/dead_array_test/main.c:37
int main()
{
    int size = 2000;
    int *a = malloc (size * sizeof(int));
    dead_compute01( a, size);
    int i;
    for (i = size-1; i>=0; i--){
4007f4: 83 6d fc 01          subl    $0x1,-0x4(%rbp)
4007f8: 83 7d fc 00          cmpl    $0x0,-0x4(%rbp)
4007fc: 79 9b                 jns     400799 <main+0x40>
/root/deadwriteBenchmark/dead_array_test/main.c:41
        printf("a[%d]=%d\t", i, a[i]);
        if(i%10==0) printf("\n");
    }
    free(a);
4007fe: 48 8b 45 f0          mov     -0x10(%rbp),%rax
400802: 48 89 c7             mov     %rax,%rdi
400805: e8 86 fc ff ff        callq   400490 <free@plt>
/root/deadwriteBenchmark/dead_array_test/main.c:42
    return 0;
40080a: b8 00 00 00 00        mov     $0x0,%eax
/root/deadwriteBenchmark/dead_array_test/main.c:43
}
40080f: c9                 leaveq
400810: c3                 retq
400811: 90                 nop
400812: 90                 nop
400813: 90                 nop
400814: 90                 nop
400815: 90                 nop
400816: 90                 nop
400817: 90                 nop
400818: 90                 nop
400819: 90                 nop
40081a: 90                 nop
40081b: 90                 nop
40081c: 90                 nop
40081d: 90                 nop
40081e: 90                 nop
40081f: 90                 nop

000000000400820 <__libc_csu_fini>:
__libc_csu_fini():
400820: f3 c3               repz retq
400822: 66 66 66 66 66 2e 0f data32 data32 data32 data32 nopw %cs:0x0(
%rax,%rax,1)
400829: 1f 84 00 00 00 00 00

000000000400830 <__libc_csu_init>:
__libc_csu_init():
400830: 48 89 6c 24 d8        mov     %rbp,-0x28(%rsp)
400835: 4c 89 64 24 e0        mov     %r12,-0x20(%rsp)
40083a: 48 8d 2d b7 01 20 00  lea     0x2001b7(%rip),%rbp      # 6009f
8 <__init_array_end>
400841: 4c 8d 25 a8 01 20 00  lea     0x2001a8(%rip),%r12      # 6009f
0 <__frame_dummy_init_array_entry>
400848: 4c 89 6c 24 e8        mov     %r13,-0x18(%rsp)
40084d: 4c 89 74 24 f0        mov     %r14,-0x10(%rsp)
400852: 4c 89 7c 24 f8        mov     %r15,-0x8(%rsp)
400857: 48 89 5c 24 d0        mov     %rbx,-0x30(%rsp)
40085c: 48 83 ec 38          sub     $0x38,%rsp
400860: 4c 29 e5             sub     %r12,%rbp
400863: 41 89 fd             mov     %edi,%r13d
400866: 49 89 f6             mov     %rsi,%r14
400869: 48 c1 fd 03          sar     $0x3,%rbp
40086d: 49 89 d7             mov     %rdx,%r15
400870: e8 fb fb ff ff        callq   400470 <_init>
400875: 48 85 ed             test    %rbp,%rbp
400878: 74 1c                 je      400896 <__libc_csu_init+0x66>
40087a: 31 db               xor     %ebx,%ebx
```