objdump -d kernel.o -M intel

kernel.o: file format elf32-i386

Disassembly of section .text:

c0020078 <start>:

c0020078: b8 00 20 8e d8 mov eax,0xd88e2000

c002007d: 8e c0 mov es,eax

c002007f: fc cld

c0020080: b4 88 mov ah,0x88

c0020082: cd 15 int 0x15

c0020084: 66 05 00 04 add ax,0x400

c0020088: 00 00 add BYTE PTR [eax],al

c002008a: 66 3d 00 00 cmp ax,0x0

c002008e: 01 00 add DWORD PTR [eax],eax

c0020090: 76 06 jbe c0020098 <start+0x20>

c0020092: 66 b8 00 00 mov ax,0x0

c0020096: 01 00 add DWORD PTR [eax],eax

c0020098: 66 c1 e8 02 shr ax,0x2

c002009c: 67 66 a3 7e 01 addr16 mov ds:0x17e,ax

c00200a1: 00 00 add BYTE PTR [eax],al

c00200a3: e4 64 in al,0x64

c00200a5: a8 02 test al,0x2

c00200a7: 75 fa jne c00200a3 <start+0x2b>

c00200a9: b0 d1 mov al,0xd1

c00200ab: e6 64 out 0x64,al

c00200ad: e4 64 in al,0x64

c00200af: a8 02 test al,0x2

c00200b1: 75 fa jne c00200ad <start+0x35>

c00200b3: b0 df mov al,0xdf

c00200b5: e6 60 out 0x60,al

c00200b7: e4 64 in al,0x64

c00200b9: a8 02 test al,0x2

c00200bb: 75 fa jne c00200b7 <start+0x3f>

c00200bd: b8 00 0f 8e c0 mov eax,0xc08e0f00

c00200c2: 66 29 c0 sub ax,ax

c00200c5: 66 29 ff sub di,di

c00200c8: 66 b9 00 04 mov cx,0x400

c00200cc: 00 00 add BYTE PTR [eax],al

c00200ce: 66 f3 ab rep stos WORD PTR es:[edi],ax

c00200d1: 66 b8 07 00 mov ax,0x7

c00200d5: 01 00 add DWORD PTR [eax],eax

c00200d7: 66 b9 11 00 mov cx,0x11

c00200db: 00 00 add BYTE PTR [eax],al

c00200dd: 66 29 ff sub di,di

c00200e0: 26 66 89 05 26 66 89 mov WORD PTR es:0x85896626,ax

c00200e7: 85

c00200e8: 00 0c 83 add BYTE PTR [ebx+eax\*4],cl

c00200eb: c7 04 66 05 00 10 00 mov DWORD PTR [esi+eiz\*2],0x100005

c00200f2: 00 e2 add dl,ah

c00200f4: eb b8 jmp c00200ae <start+0x36>

c00200f6: 00 10 add BYTE PTR [eax],dl

c00200f8: 8e c0 mov es,eax

c00200fa: 66 b8 07 00 mov ax,0x7

c00200fe: 00 00 add BYTE PTR [eax],al

c0020100: 66 b9 00 40 mov cx,0x4000

c0020104: 00 00 add BYTE PTR [eax],al

c0020106: 66 29 ff sub di,di

c0020109: 26 66 89 05 83 c7 04 mov WORD PTR es:0x6604c783,ax

c0020110: 66

c0020111: 05 00 10 00 00 add eax,0x1000

c0020116: e2 f1 loop c0020109 <start+0x91>

c0020118: 66 b8 00 f0 mov ax,0xf000

c002011c: 00 00 add BYTE PTR [eax],al

c002011e: 0f 22 d8 mov cr3,eax

c0020121: fa cli

c0020122: 67 66 0f 01 15 lgdtw [di]

c0020127: 78 01 js c002012a <start+0xb2>

c0020129: 00 00 add BYTE PTR [eax],al

c002012b: 0f 20 c0 mov eax,cr0

c002012e: 66 0d 05 00 or ax,0x5

c0020132: 01 80 0f 22 c0 66 add DWORD PTR [eax+0x66c0220f],eax

c0020138: ea 3f 01 02 c0 08 00 jmp 0x8:0xc002013f

c002013f: 66 b8 10 00 mov ax,0x10

c0020143: 8e d8 mov ds,eax

c0020145: 8e c0 mov es,eax

c0020147: 8e e0 mov fs,eax

c0020149: 8e e8 mov gs,eax

c002014b: 8e d0 mov ss,eax

c002014d: 81 c4 00 00 00 c0 add esp,0xc0000000

c0020153: bd 00 00 00 00 mov ebp,0x0

c0020158: e8 fe 00 00 00 call c002025b <main>

c002015d: eb fe jmp c002015d <start+0xe5>

...

c0020160 <gdt>:

...

c0020168: ff (bad)

c0020169: ff 00 inc DWORD PTR [eax]

c002016b: 00 00 add BYTE PTR [eax],al

c002016d: 9a cf 00 ff ff 00 00 call 0x0:0xffff00cf

c0020174: 00 .byte 0x0

c0020175: 92 xchg edx,eax

c0020176: cf iret

...

c0020178 <gdtdesc>:

c0020178: 17 pop ss

c0020179: 00 60 01 add BYTE PTR [eax+0x1],ah

c002017c: 02 c0 add al,al

c002017e <init\_ram\_pages>:

c002017e: 00 00 add BYTE PTR [eax],al

...

c0020182 <locate\_block\_device>:

c0020182: 57 push edi

c0020183: 56 push esi

c0020184: 53 push ebx

c0020185: 89 c6 mov esi,eax

c0020187: 85 d2 test edx,edx

c0020189: 74 31 je c00201bc <locate\_block\_device+0x3

a>

c002018b: 89 d7 mov edi,edx

c002018d: 83 ec 0c sub esp,0xc

c0020190: 52 push edx

c0020191: e8 e8 3f 00 00 call c002417e <block\_get\_by\_name>

c0020196: 89 c3 mov ebx,eax

c0020198: 83 c4 10 add esp,0x10

c002019b: 85 c0 test eax,eax

c002019d: 75 50 jne c00201ef <locate\_block\_device+0x6

d>

c002019f: 83 ec 0c sub esp,0xc

c00201a2: 57 push edi

c00201a3: 68 b1 ec 02 c0 push 0xc002ecb1

c00201a8: 68 14 d6 02 c0 push 0xc002d614

c00201ad: 68 b3 01 00 00 push 0x1b3

c00201b2: 68 cb ec 02 c0 push 0xc002eccb

c00201b7: e8 81 77 00 00 call c002793d <debug\_panic>

c00201bc: e8 68 3f 00 00 call c0024129 <block\_first>

c00201c1: 89 c3 mov ebx,eax

c00201c3: 85 c0 test eax,eax

c00201c5: 74 57 je c002021e <locate\_block\_device+0x9

c>

c00201c7: 83 ec 0c sub esp,0xc

c00201ca: 53 push ebx

c00201cb: e8 ad 40 00 00 call c002427d <block\_type>

c00201d0: 83 c4 10 add esp,0x10

c00201d3: 39 f0 cmp eax,esi

c00201d5: 74 14 je c00201eb <locate\_block\_device+0x6

9>

c00201d7: 83 ec 0c sub esp,0xc

c00201da: 53 push ebx

c00201db: e8 74 3f 00 00 call c0024154 <block\_next>

c00201e0: 89 c3 mov ebx,eax

c00201e2: 83 c4 10 add esp,0x10

c00201e5: 85 c0 test eax,eax

c00201e7: 75 de jne c00201c7 <locate\_block\_device+0x4

5>

c00201e9: eb 33 jmp c002021e <locate\_block\_device+0x9

c>

c00201eb: 85 db test ebx,ebx

c00201ed: 74 2f je c002021e <locate\_block\_device+0x9

c>

c00201ef: 83 ec 0c sub esp,0xc

c00201f2: 53 push ebx

c00201f3: e8 7d 40 00 00 call c0024275 <block\_name>

c00201f8: 89 c7 mov edi,eax

c00201fa: 89 34 24 mov DWORD PTR [esp],esi

c00201fd: e8 84 3e 00 00 call c0024086 <block\_type\_name>

c0020202: 83 c4 0c add esp,0xc

c0020205: 57 push edi

c0020206: 50 push eax

c0020207: 68 e0 ec 02 c0 push 0xc002ece0

c002020c: e8 b4 5a 00 00 call c0025cc5 <printf>

c0020211: 83 c4 08 add esp,0x8

c0020214: 53 push ebx

c0020215: 56 push esi

c0020216: e8 d5 3e 00 00 call c00240f0 <block\_set\_role>

c002021b: 83 c4 10 add esp,0x10

c002021e: 5b pop ebx

c002021f: 5e pop esi

c0020220: 5f pop edi

c0020221: c3 ret

c0020222 <run\_task>:

c0020222: 53 push ebx

c0020223: 83 ec 10 sub esp,0x10

c0020226: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c002022a: 8b 58 04 mov ebx,DWORD PTR [eax+0x4]

c002022d: 53 push ebx

c002022e: 68 ee ec 02 c0 push 0xc002ecee

c0020233: e8 8d 5a 00 00 call c0025cc5 <printf>

c0020238: 89 1c 24 mov DWORD PTR [esp],ebx

c002023b: e8 a2 92 00 00 call c00294e2 <process\_execute>

c0020240: 89 04 24 mov DWORD PTR [esp],eax

c0020243: e8 5f 93 00 00 call c00295a7 <process\_wait>

c0020248: 83 c4 08 add esp,0x8

c002024b: 53 push ebx

c002024c: 68 ff ec 02 c0 push 0xc002ecff

c0020251: e8 6f 5a 00 00 call c0025cc5 <printf>

c0020256: 83 c4 18 add esp,0x18

c0020259: 5b pop ebx

c002025a: c3 ret

c002025b <main>:

c002025b: 8d 4c 24 04 lea ecx,[esp+0x4]

c002025f: 83 e4 f0 and esp,0xfffffff0

c0020262: ff 71 fc push DWORD PTR [ecx-0x4]

c0020265: 55 push ebp

c0020266: 89 e5 mov ebp,esp

c0020268: 57 push edi

c0020269: 56 push esi

c002026a: 53 push ebx

c002026b: 51 push ecx

c002026c: 83 ec 3c sub esp,0x3c

c002026f: b8 94 ba 03 c0 mov eax,0xc003ba94

c0020274: 2d 24 9b 03 c0 sub eax,0xc0039b24

c0020279: 50 push eax

c002027a: 6a 00 push 0x0

c002027c: 68 24 9b 03 c0 push 0xc0039b24

c0020281: e8 8e 6c 00 00 call c0026f14 <memset>

c0020286: 8b 35 3a 7d 00 c0 mov esi,DWORD PTR ds:0xc0007d3a

c002028c: 83 c4 10 add esp,0x10

c002028f: bf 00 00 00 00 mov edi,0x0

c0020294: bb 3e 7d 00 c0 mov ebx,0xc0007d3e

c0020299: 85 f6 test esi,esi

c002029b: 7f 26 jg c00202c3 <main+0x68>

c002029d: e9 14 06 00 00 jmp c00208b6 <main+0x65b>

c00202a2: 81 fb bd 7d 00 c0 cmp ebx,0xc0007dbd

c00202a8: 76 19 jbe c00202c3 <main+0x68>

c00202aa: 68 58 ee 02 c0 push 0xc002ee58

c00202af: 68 4c d6 02 c0 push 0xc002d64c

c00202b4: 68 d3 00 00 00 push 0xd3

c00202b9: 68 cb ec 02 c0 push 0xc002eccb

c00202be: e8 7a 76 00 00 call c002793d <debug\_panic>

c00202c3: 89 1c bd 40 9b 03 c0 mov DWORD PTR [edi\*4-0x3ffc64c0],ebx

c00202ca: 83 ec 08 sub esp,0x8

c00202cd: b8 be 7d 00 c0 mov eax,0xc0007dbe

c00202d2: 29 d8 sub eax,ebx

c00202d4: 50 push eax

c00202d5: 53 push ebx

c00202d6: e8 4a 6d 00 00 call c0027025 <strnlen>

c00202db: 8d 5c 03 01 lea ebx,[ebx+eax\*1+0x1]

c00202df: 83 c7 01 add edi,0x1

c00202e2: 83 c4 10 add esp,0x10

c00202e5: 39 fe cmp esi,edi

c00202e7: 75 b9 jne c00202a2 <main+0x47>

c00202e9: e9 a3 05 00 00 jmp c0020891 <main+0x636>

c00202ee: 8b 3c 9d 40 9b 03 c0 mov edi,DWORD PTR [ebx\*4-0x3ffc64c0]

c00202f5: 83 ec 08 sub esp,0x8

c00202f8: 6a 20 push 0x20

c00202fa: 57 push edi

c00202fb: e8 bf 69 00 00 call c0026cbf <strchr>

c0020300: 83 c4 10 add esp,0x10

c0020303: 85 c0 test eax,eax

c0020305: 75 14 jne c002031b <main+0xc0>

c0020307: 83 ec 04 sub esp,0x4

c002030a: 57 push edi

c002030b: 53 push ebx

c002030c: 68 1c ed 02 c0 push 0xc002ed1c

c0020311: e8 af 59 00 00 call c0025cc5 <printf>

c0020316: 83 c4 10 add esp,0x10

c0020319: eb 12 jmp c002032d <main+0xd2>

c002031b: 83 ec 04 sub esp,0x4

c002031e: 57 push edi

c002031f: 53 push ebx

c0020320: 68 30 ed 02 c0 push 0xc002ed30

c0020325: e8 9b 59 00 00 call c0025cc5 <printf>

c002032a: 83 c4 10 add esp,0x10

c002032d: 83 c3 01 add ebx,0x1

c0020330: 39 de cmp esi,ebx

c0020332: 75 ba jne c00202ee <main+0x93>

c0020334: 83 ec 0c sub esp,0xc

c0020337: 6a 0a push 0xa

c0020339: e8 83 91 00 00 call c00294c1 <putchar>

c002033e: a1 40 9b 03 c0 mov eax,ds:0xc0039b40

c0020343: 83 c4 10 add esp,0x10

c0020346: 85 c0 test eax,eax

c0020348: 0f 84 07 02 00 00 je c0020555 <main+0x2fa>

c002034e: 80 38 2d cmp BYTE PTR [eax],0x2d

c0020351: 0f 85 07 02 00 00 jne c002055e <main+0x303>

c0020357: bb 40 9b 03 c0 mov ebx,0xc0039b40

c002035c: 83 ec 04 sub esp,0x4

c002035f: 8d 4d e4 lea ecx,[ebp-0x1c]

c0020362: 51 push ecx

c0020363: 68 09 fd 02 c0 push 0xc002fd09

c0020368: 50 push eax

c0020369: e8 a8 6a 00 00 call c0026e16 <strtok\_r>

c002036e: 89 c6 mov esi,eax

c0020370: 89 45 d4 mov DWORD PTR [ebp-0x2c],eax

c0020373: 83 c4 0c add esp,0xc

c0020376: 8d 45 e4 lea eax,[ebp-0x1c]

c0020379: 50 push eax

c002037a: 68 aa 0e 03 c0 push 0xc0030eaa

c002037f: 6a 00 push 0x0

c0020381: e8 90 6a 00 00 call c0026e16 <strtok\_r>

c0020386: 89 45 d0 mov DWORD PTR [ebp-0x30],eax

c0020389: bf 3f ed 02 c0 mov edi,0xc002ed3f

c002038e: b9 03 00 00 00 mov ecx,0x3

c0020393: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c0020395: 0f 97 c2 seta dl

c0020398: 0f 92 c0 setb al

c002039b: 83 c4 10 add esp,0x10

c002039e: 38 c2 cmp dl,al

c00203a0: 75 12 jne c00203b4 <main+0x159>

c00203a2: 83 ec 0c sub esp,0xc

c00203a5: 68 78 ee 02 c0 push 0xc002ee78

c00203aa: e8 a1 90 00 00 call c0029450 <puts>

c00203af: e8 40 52 00 00 call c00255f4 <shutdown\_power\_off>

c00203b4: bf 42 ed 02 c0 mov edi,0xc002ed42

c00203b9: b9 03 00 00 00 mov ecx,0x3

c00203be: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c00203c1: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c00203c3: 0f 97 c2 seta dl

c00203c6: 0f 92 c0 setb al

c00203c9: 38 c2 cmp dl,al

c00203cb: 75 12 jne c00203df <main+0x184>

c00203cd: 83 ec 0c sub esp,0xc

c00203d0: 6a 01 push 0x1

c00203d2: e8 a3 51 00 00 call c002557a <shutdown\_configure>

c00203d7: 83 c4 10 add esp,0x10

c00203da: e9 5f 01 00 00 jmp c002053e <main+0x2e3>

c00203df: bf 45 ed 02 c0 mov edi,0xc002ed45

c00203e4: b9 03 00 00 00 mov ecx,0x3

c00203e9: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c00203ec: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c00203ee: 0f 97 c2 seta dl

c00203f1: 0f 92 c0 setb al

c00203f4: 38 c2 cmp dl,al

c00203f6: 75 12 jne c002040a <main+0x1af>

c00203f8: 83 ec 0c sub esp,0xc

c00203fb: 6a 02 push 0x2

c00203fd: e8 78 51 00 00 call c002557a <shutdown\_configure>

c0020402: 83 c4 10 add esp,0x10

c0020405: e9 34 01 00 00 jmp c002053e <main+0x2e3>

c002040a: bf 48 ed 02 c0 mov edi,0xc002ed48

c002040f: b9 03 00 00 00 mov ecx,0x3

c0020414: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c0020417: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c0020419: 0f 97 c2 seta dl

c002041c: 0f 92 c0 setb al

c002041f: 38 c2 cmp dl,al

c0020421: 75 0c jne c002042f <main+0x1d4>

c0020423: c6 05 50 9c 03 c0 01 mov BYTE PTR ds:0xc0039c50,0x1

c002042a: e9 0f 01 00 00 jmp c002053e <main+0x2e3>

c002042f: bf 4b ed 02 c0 mov edi,0xc002ed4b

c0020434: b9 09 00 00 00 mov ecx,0x9

c0020439: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c002043c: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c002043e: 0f 97 c2 seta dl

c0020441: 0f 92 c0 setb al

c0020444: 38 c2 cmp dl,al

c0020446: 75 0d jne c0020455 <main+0x1fa>

c0020448: 8b 45 d0 mov eax,DWORD PTR [ebp-0x30]

c002044b: a3 4c 9c 03 c0 mov ds:0xc0039c4c,eax

c0020450: e9 e9 00 00 00 jmp c002053e <main+0x2e3>

c0020455: bf 54 ed 02 c0 mov edi,0xc002ed54

c002045a: b9 09 00 00 00 mov ecx,0x9

c002045f: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c0020462: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c0020464: 0f 97 c2 seta dl

c0020467: 0f 92 c0 setb al

c002046a: 38 c2 cmp dl,al

c002046c: 75 0d jne c002047b <main+0x220>

c002046e: 8b 45 d0 mov eax,DWORD PTR [ebp-0x30]

c0020471: a3 48 9c 03 c0 mov ds:0xc0039c48,eax

c0020476: e9 c3 00 00 00 jmp c002053e <main+0x2e3>

c002047b: bf 5d ed 02 c0 mov edi,0xc002ed5d

c0020480: b9 06 00 00 00 mov ecx,0x6

c0020485: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c0020488: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c002048a: 0f 97 c2 seta dl

c002048d: 0f 92 c0 setb al

c0020490: 38 c2 cmp dl,al

c0020492: 75 0d jne c00204a1 <main+0x246>

c0020494: 8b 45 d0 mov eax,DWORD PTR [ebp-0x30]

c0020497: a3 44 9c 03 c0 mov ds:0xc0039c44,eax

c002049c: e9 9d 00 00 00 jmp c002053e <main+0x2e3>

c00204a1: bf 63 ed 02 c0 mov edi,0xc002ed63

c00204a6: b9 04 00 00 00 mov ecx,0x4

c00204ab: 8b 75 d4 mov esi,DWORD PTR [ebp-0x2c]

c00204ae: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c00204b0: 0f 97 c2 seta dl

c00204b3: 0f 92 c0 setb al

c00204b6: 38 c2 cmp dl,al

c00204b8: 75 18 jne c00204d2 <main+0x277>

c00204ba: 83 ec 0c sub esp,0xc

c00204bd: ff 75 d0 push DWORD PTR [ebp-0x30]

c00204c0: e8 bd 62 00 00 call c0026782 <atoi>

c00204c5: 89 04 24 mov DWORD PTR [esp],eax

c00204c8: e8 e1 52 00 00 call c00257ae <random\_init>

c00204cd: 83 c4 10 add esp,0x10

c00204d0: eb 6c jmp c002053e <main+0x2e3>

c00204d2: 83 ec 08 sub esp,0x8

c00204d5: 68 67 ed 02 c0 push 0xc002ed67

c00204da: ff 75 d4 push DWORD PTR [ebp-0x2c]

c00204dd: e8 f2 66 00 00 call c0026bd4 <strcmp>

c00204e2: 83 c4 10 add esp,0x10

c00204e5: 85 c0 test eax,eax

c00204e7: 75 09 jne c00204f2 <main+0x297>

c00204e9: c6 05 80 ba 03 c0 01 mov BYTE PTR ds:0xc003ba80,0x1

c00204f0: eb 4c jmp c002053e <main+0x2e3>

c00204f2: 83 ec 08 sub esp,0x8

c00204f5: 68 6e ed 02 c0 push 0xc002ed6e

c00204fa: ff 75 d4 push DWORD PTR [ebp-0x2c]

c00204fd: e8 d2 66 00 00 call c0026bd4 <strcmp>

c0020502: 83 c4 10 add esp,0x10

c0020505: 85 c0 test eax,eax

c0020507: 75 15 jne c002051e <main+0x2c3>

c0020509: 83 ec 0c sub esp,0xc

c002050c: ff 75 d0 push DWORD PTR [ebp-0x30]

c002050f: e8 6e 62 00 00 call c0026782 <atoi>

c0020514: a3 dc 96 03 c0 mov ds:0xc00396dc,eax

c0020519: 83 c4 10 add esp,0x10

c002051c: eb 20 jmp c002053e <main+0x2e3>

c002051e: 8b 5d d4 mov ebx,DWORD PTR [ebp-0x2c]

c0020521: 83 ec 0c sub esp,0xc

c0020524: 53 push ebx

c0020525: 68 dc f2 02 c0 push 0xc002f2dc

c002052a: 68 3c d6 02 c0 push 0xc002d63c

c002052f: 68 17 01 00 00 push 0x117

c0020534: 68 cb ec 02 c0 push 0xc002eccb

c0020539: e8 ff 73 00 00 call c002793d <debug\_panic>

c002053e: 83 c3 04 add ebx,0x4

c0020541: 8b 03 mov eax,DWORD PTR [ebx]

c0020543: 85 c0 test eax,eax

c0020545: 74 20 je c0020567 <main+0x30c>

c0020547: 80 38 2d cmp BYTE PTR [eax],0x2d

c002054a: 0f 84 0c fe ff ff je c002035c <main+0x101>

c0020550: 89 5d c4 mov DWORD PTR [ebp-0x3c],ebx

c0020553: eb 15 jmp c002056a <main+0x30f>

c0020555: c7 45 c4 40 9b 03 c0 mov DWORD PTR [ebp-0x3c],0xc0039b40

c002055c: eb 0c jmp c002056a <main+0x30f>

c002055e: c7 45 c4 40 9b 03 c0 mov DWORD PTR [ebp-0x3c],0xc0039b40

c0020565: eb 03 jmp c002056a <main+0x30f>

c0020567: 89 5d c4 mov DWORD PTR [ebp-0x3c],ebx

c002056a: e8 aa 4e 00 00 call c0025419 <rtc\_get\_time>

c002056f: 83 ec 0c sub esp,0xc

c0020572: 50 push eax

c0020573: e8 36 52 00 00 call c00257ae <random\_init>

c0020578: e8 f9 04 00 00 call c0020a76 <thread\_init>

c002057d: e8 5d 8e 00 00 call c00293df <console\_init>

c0020582: 83 c4 08 add esp,0x8

c0020585: a1 7e 01 02 c0 mov eax,ds:0xc002017e

c002058a: c1 e0 0c shl eax,0xc

c002058d: c1 e8 0a shr eax,0xa

c0020590: 50 push eax

c0020591: 68 04 f3 02 c0 push 0xc002f304

c0020596: e8 2a 57 00 00 call c0025cc5 <printf>

c002059b: 83 c4 04 add esp,0x4

c002059e: ff 35 dc 96 03 c0 push DWORD PTR ds:0xc00396dc

c00205a4: e8 aa 26 00 00 call c0022c53 <palloc\_init>

c00205a9: e8 6f 2a 00 00 call c002301d <malloc\_init>

c00205ae: c7 04 24 03 00 00 00 mov DWORD PTR [esp],0x3

c00205b5: e8 d1 27 00 00 call c0022d8b <palloc\_get\_page>

c00205ba: 89 45 c8 mov DWORD PTR [ebp-0x38],eax

c00205bd: a3 44 ba 03 c0 mov ds:0xc003ba44,eax

c00205c2: 83 c4 10 add esp,0x10

c00205c5: 83 3d 7e 01 02 c0 00 cmp DWORD PTR ds:0xc002017e,0x0

c00205cc: 0f 84 02 01 00 00 je c00206d4 <main+0x479>

c00205d2: bb 00 00 00 c0 mov ebx,0xc0000000

c00205d7: b8 00 00 00 00 mov eax,0x0

c00205dc: bf 00 00 00 00 mov edi,0x0

c00205e1: 89 da mov edx,ebx

c00205e3: 81 e2 00 f0 3f 00 and edx,0x3ff000

c00205e9: c1 ea 0c shr edx,0xc

c00205ec: 89 55 d0 mov DWORD PTR [ebp-0x30],edx

c00205ef: 89 5d d4 mov DWORD PTR [ebp-0x2c],ebx

c00205f2: 81 fb 00 00 02 c0 cmp ebx,0xc0020000

c00205f8: 0f 93 c1 setae cl

c00205fb: 81 fb 00 20 03 c0 cmp ebx,0xc0032000

c0020601: 0f 92 c2 setb dl

c0020604: 21 d1 and ecx,edx

c0020606: 88 4d cf mov BYTE PTR [ebp-0x31],cl

c0020609: 89 da mov edx,ebx

c002060b: c1 ea 16 shr edx,0x16

c002060e: 8b 4d c8 mov ecx,DWORD PTR [ebp-0x38]

c0020611: 8d 34 91 lea esi,[ecx+edx\*4]

c0020614: 83 3e 00 cmp DWORD PTR [esi],0x0

c0020617: 75 64 jne c002067d <main+0x422>

c0020619: 83 ec 0c sub esp,0xc

c002061c: 6a 03 push 0x3

c002061e: e8 68 27 00 00 call c0022d8b <palloc\_get\_page>

c0020623: 89 c2 mov edx,eax

c0020625: 83 c4 10 add esp,0x10

c0020628: a9 ff 0f 00 00 test eax,0xfff

c002062d: 74 1e je c002064d <main+0x3f2>

c002062f: 83 ec 0c sub esp,0xc

c0020632: 68 72 ed 02 c0 push 0xc002ed72

c0020637: 68 83 ed 02 c0 push 0xc002ed83

c002063c: 68 30 d6 02 c0 push 0xc002d630

c0020641: 6a 48 push 0x48

c0020643: 68 9a ed 02 c0 push 0xc002ed9a

c0020648: e8 f0 72 00 00 call c002793d <debug\_panic>

c002064d: 3d ff ff ff bf cmp eax,0xbfffffff

c0020652: 77 1e ja c0020672 <main+0x417>

c0020654: 83 ec 0c sub esp,0xc

c0020657: 68 ae ed 02 c0 push 0xc002edae

c002065c: 68 83 ed 02 c0 push 0xc002ed83

c0020661: 68 28 d6 02 c0 push 0xc002d628

c0020666: 6a 54 push 0x54

c0020668: 68 c6 ed 02 c0 push 0xc002edc6

c002066d: e8 cb 72 00 00 call c002793d <debug\_panic>

c0020672: 81 c2 00 00 00 40 add edx,0x40000000

c0020678: 83 ca 07 or edx,0x7

c002067b: 89 16 mov DWORD PTR [esi],edx

c002067d: 8b 4d d0 mov ecx,DWORD PTR [ebp-0x30]

c0020680: 8d 0c 88 lea ecx,[eax+ecx\*4]

c0020683: 81 7d d4 ff ff ff bf cmp DWORD PTR [ebp-0x2c],0xbfffffff

c002068a: 77 1e ja c00206aa <main+0x44f>

c002068c: 83 ec 0c sub esp,0xc

c002068f: 68 ae ed 02 c0 push 0xc002edae

c0020694: 68 83 ed 02 c0 push 0xc002ed83

c0020699: 68 28 d6 02 c0 push 0xc002d628

c002069e: 6a 54 push 0x54

c00206a0: 68 c6 ed 02 c0 push 0xc002edc6

c00206a5: e8 93 72 00 00 call c002793d <debug\_panic>

c00206aa: 89 fa mov edx,edi

c00206ac: c1 e2 0c shl edx,0xc

c00206af: 80 7d cf 01 cmp BYTE PTR [ebp-0x31],0x1

c00206b3: 19 f6 sbb esi,esi

c00206b5: 83 e6 02 and esi,0x2

c00206b8: 83 ca 01 or edx,0x1

c00206bb: 09 f2 or edx,esi

c00206bd: 89 11 mov DWORD PTR [ecx],edx

c00206bf: 83 c7 01 add edi,0x1

c00206c2: 81 c3 00 10 00 00 add ebx,0x1000

c00206c8: 3b 3d 7e 01 02 c0 cmp edi,DWORD PTR ds:0xc002017e

c00206ce: 0f 82 0d ff ff ff jb c00205e1 <main+0x386>

c00206d4: a1 44 ba 03 c0 mov eax,ds:0xc003ba44

c00206d9: 3d ff ff ff bf cmp eax,0xbfffffff

c00206de: 77 1e ja c00206fe <main+0x4a3>

c00206e0: 83 ec 0c sub esp,0xc

c00206e3: 68 ae ed 02 c0 push 0xc002edae

c00206e8: 68 83 ed 02 c0 push 0xc002ed83

c00206ed: 68 28 d6 02 c0 push 0xc002d628

c00206f2: 6a 54 push 0x54

c00206f4: 68 c6 ed 02 c0 push 0xc002edc6

c00206f9: e8 3f 72 00 00 call c002793d <debug\_panic>

c00206fe: 05 00 00 00 40 add eax,0x40000000

c0020703: 0f 22 d8 mov cr3,eax

c0020706: e8 fa ae 00 00 call c002b605 <tss\_init>

c002070b: e8 cc ad 00 00 call c002b4dc <gdt\_init>

c0020710: e8 8e 0d 00 00 call c00214a3 <intr\_init>

c0020715: e8 b6 2e 00 00 call c00235d0 <timer\_init>

c002071a: e8 af 33 00 00 call c0023ace <kbd\_init>

c002071f: e8 90 48 00 00 call c0024fb4 <input\_init>

c0020724: e8 61 a1 00 00 call c002a88a <exception\_init>

c0020729: e8 b5 a2 00 00 call c002a9e3 <syscall\_init>

c002072e: e8 f9 06 00 00 call c0020e2c <thread\_start>

c0020733: e8 ab 37 00 00 call c0023ee3 <serial\_init\_queue>

c0020738: e8 bc 2e 00 00 call c00235f9 <timer\_calibrate>

c002073d: e8 f2 45 00 00 call c0024d34 <ide\_init>

c0020742: 8b 15 4c 9c 03 c0 mov edx,DWORD PTR ds:0xc0039c4c

c0020748: b8 01 00 00 00 mov eax,0x1

c002074d: e8 30 fa ff ff call c0020182 <locate\_block\_device>

c0020752: 8b 15 48 9c 03 c0 mov edx,DWORD PTR ds:0xc0039c48

c0020758: b8 02 00 00 00 mov eax,0x2

c002075d: e8 20 fa ff ff call c0020182 <locate\_block\_device>

c0020762: 8b 15 44 9c 03 c0 mov edx,DWORD PTR ds:0xc0039c44

c0020768: b8 03 00 00 00 mov eax,0x3

c002076d: e8 10 fa ff ff call c0020182 <locate\_block\_device>

c0020772: e8 54 cc 00 00 call c002d3cb <swap\_init>

c0020777: 83 ec 0c sub esp,0xc

c002077a: 0f b6 05 50 9c 03 c0 movzx eax,BYTE PTR ds:0xc0039c50

c0020781: 50 push eax

c0020782: e8 a2 ae 00 00 call c002b629 <filesys\_init>

c0020787: 83 c4 08 add esp,0x8

c002078a: ff 35 4c 9c 03 c0 push DWORD PTR ds:0xc0039c4c

c0020790: 68 dc ed 02 c0 push 0xc002eddc

c0020795: e8 2b 55 00 00 call c0025cc5 <printf>

c002079a: 83 c4 08 add esp,0x8

c002079d: ff 35 48 9c 03 c0 push DWORD PTR ds:0xc0039c48

c00207a3: 68 f2 ed 02 c0 push 0xc002edf2

c00207a8: e8 18 55 00 00 call c0025cc5 <printf>

c00207ad: 83 c4 08 add esp,0x8

c00207b0: ff 35 44 9c 03 c0 push DWORD PTR ds:0xc0039c44

c00207b6: 68 08 ee 02 c0 push 0xc002ee08

c00207bb: e8 05 55 00 00 call c0025cc5 <printf>

c00207c0: c7 04 24 1b ee 02 c0 mov DWORD PTR [esp],0xc002ee1b

c00207c7: e8 84 8c 00 00 call c0029450 <puts>

c00207cc: 8b 45 c4 mov eax,DWORD PTR [ebp-0x3c]

c00207cf: 8b 30 mov esi,DWORD PTR [eax]

c00207d1: 83 c4 10 add esp,0x10

c00207d4: 8b 7d c4 mov edi,DWORD PTR [ebp-0x3c]

c00207d7: 85 f6 test esi,esi

c00207d9: 0f 85 99 00 00 00 jne c0020878 <main+0x61d>

c00207df: e9 a3 00 00 00 jmp c0020887 <main+0x62c>

c00207e4: 83 ec 0c sub esp,0xc

c00207e7: 56 push esi

c00207e8: 68 28 f3 02 c0 push 0xc002f328

c00207ed: 68 a0 d5 02 c0 push 0xc002d5a0

c00207f2: 68 59 01 00 00 push 0x159

c00207f7: 68 cb ec 02 c0 push 0xc002eccb

c00207fc: e8 3c 71 00 00 call c002793d <debug\_panic>

c0020801: 83 ec 08 sub esp,0x8

c0020804: 50 push eax

c0020805: 56 push esi

c0020806: e8 c9 63 00 00 call c0026bd4 <strcmp>

c002080b: 83 c4 10 add esp,0x10

c002080e: 85 c0 test eax,eax

c0020810: 75 15 jne c0020827 <main+0x5cc>

c0020812: 8b 53 04 mov edx,DWORD PTR [ebx+0x4]

c0020815: 83 fa 01 cmp edx,0x1

c0020818: 7e 46 jle c0020860 <main+0x605>

c002081a: 83 7f 04 00 cmp DWORD PTR [edi+0x4],0x0

c002081e: 74 18 je c0020838 <main+0x5dd>

c0020820: b8 01 00 00 00 mov eax,0x1

c0020825: eb 32 jmp c0020859 <main+0x5fe>

c0020827: 83 c3 0c add ebx,0xc

c002082a: 8b 03 mov eax,DWORD PTR [ebx]

c002082c: 85 c0 test eax,eax

c002082e: 75 d1 jne c0020801 <main+0x5a6>

c0020830: eb b2 jmp c00207e4 <main+0x589>

c0020832: 83 3c 87 00 cmp DWORD PTR [edi+eax\*4],0x0

c0020836: 75 21 jne c0020859 <main+0x5fe>

c0020838: 83 ec 08 sub esp,0x8

c002083b: 83 ea 01 sub edx,0x1

c002083e: 52 push edx

c002083f: 56 push esi

c0020840: 68 50 f3 02 c0 push 0xc002f350

c0020845: 68 a0 d5 02 c0 push 0xc002d5a0

c002084a: 68 60 01 00 00 push 0x160

c002084f: 68 cb ec 02 c0 push 0xc002eccb

c0020854: e8 e4 70 00 00 call c002793d <debug\_panic>

c0020859: 83 c0 01 add eax,0x1

c002085c: 39 d0 cmp eax,edx

c002085e: 75 d2 jne c0020832 <main+0x5d7>

c0020860: 83 ec 0c sub esp,0xc

c0020863: 57 push edi

c0020864: ff 53 08 call DWORD PTR [ebx+0x8]

c0020867: 8b 43 04 mov eax,DWORD PTR [ebx+0x4]

c002086a: 8d 3c 87 lea edi,[edi+eax\*4]

c002086d: 8b 37 mov esi,DWORD PTR [edi]

c002086f: 83 c4 10 add esp,0x10

c0020872: 85 f6 test esi,esi

c0020874: 74 11 je c0020887 <main+0x62c>

c0020876: eb 00 jmp c0020878 <main+0x61d>

c0020878: b8 a6 f6 02 c0 mov eax,0xc002f6a6

c002087d: bb c0 d5 02 c0 mov ebx,0xc002d5c0

c0020882: e9 7a ff ff ff jmp c0020801 <main+0x5a6>

c0020887: e8 e9 4d 00 00 call c0025675 <shutdown>

c002088c: e8 ae 09 00 00 call c002123f <thread\_exit>

c0020891: c7 04 b5 40 9b 03 c0 mov DWORD PTR [esi\*4-0x3ffc64c0],0x0

c0020898: 00 00 00 00

c002089c: 83 ec 0c sub esp,0xc

c002089f: 68 2a ee 02 c0 push 0xc002ee2a

c00208a4: e8 1c 54 00 00 call c0025cc5 <printf>

c00208a9: 83 c4 10 add esp,0x10

c00208ac: bb 00 00 00 00 mov ebx,0x0

c00208b1: e9 38 fa ff ff jmp c00202ee <main+0x93>

c00208b6: c7 04 b5 40 9b 03 c0 mov DWORD PTR [esi\*4-0x3ffc64c0],0x0

c00208bd: 00 00 00 00

c00208c1: 83 ec 0c sub esp,0xc

c00208c4: 68 2a ee 02 c0 push 0xc002ee2a

c00208c9: e8 f7 53 00 00 call c0025cc5 <printf>

c00208ce: 83 c4 10 add esp,0x10

c00208d1: e9 5e fa ff ff jmp c0020334 <main+0xd9>

c00208d6 <alloc\_frame>:

c00208d6: 83 ec 0c sub esp,0xc

c00208d9: 85 c0 test eax,eax

c00208db: 74 33 je c0020910 <alloc\_frame+0x3a>

c00208dd: 81 78 34 4b bf 6a cd cmp DWORD PTR [eax+0x34],0xcd6abf4b

c00208e4: 75 2a jne c0020910 <alloc\_frame+0x3a>

c00208e6: eb 21 jmp c0020909 <alloc\_frame+0x33>

c00208e8: 83 ec 0c sub esp,0xc

c00208eb: 68 74 f3 02 c0 push 0xc002f374

c00208f0: 68 83 ed 02 c0 push 0xc002ed83

c00208f5: 68 e0 d6 02 c0 push 0xc002d6e0

c00208fa: 68 09 02 00 00 push 0x209

c00208ff: 68 92 f3 02 c0 push 0xc002f392

c0020904: e8 34 70 00 00 call c002793d <debug\_panic>

c0020909: f6 c2 03 test dl,0x3

c002090c: 74 23 je c0020931 <alloc\_frame+0x5b>

c002090e: eb d8 jmp c00208e8 <alloc\_frame+0x12>

c0020910: 83 ec 0c sub esp,0xc

c0020913: 68 a9 f3 02 c0 push 0xc002f3a9

c0020918: 68 83 ed 02 c0 push 0xc002ed83

c002091d: 68 e0 d6 02 c0 push 0xc002d6e0

c0020922: 68 08 02 00 00 push 0x208

c0020927: 68 92 f3 02 c0 push 0xc002f392

c002092c: e8 0c 70 00 00 call c002793d <debug\_panic>

c0020931: 8b 48 18 mov ecx,DWORD PTR [eax+0x18]

c0020934: 29 d1 sub ecx,edx

c0020936: 89 48 18 mov DWORD PTR [eax+0x18],ecx

c0020939: 89 c8 mov eax,ecx

c002093b: 83 c4 0c add esp,0xc

c002093e: c3 ret

c002093f <init\_thread>:

c002093f: 57 push edi

c0020940: 56 push esi

c0020941: 53 push ebx

c0020942: 85 c0 test eax,eax

c0020944: 75 21 jne c0020967 <init\_thread+0x28>

c0020946: 83 ec 0c sub esp,0xc

c0020949: 68 5b 09 03 c0 push 0xc003095b

c002094e: 68 83 ed 02 c0 push 0xc002ed83

c0020953: 68 0c d7 02 c0 push 0xc002d70c

c0020958: 68 e7 01 00 00 push 0x1e7

c002095d: 68 92 f3 02 c0 push 0xc002f392

c0020962: e8 d6 6f 00 00 call c002793d <debug\_panic>

c0020967: 89 c3 mov ebx,eax

c0020969: 89 ce mov esi,ecx

c002096b: 83 f9 3f cmp ecx,0x3f

c002096e: 76 21 jbe c0020991 <init\_thread+0x52>

c0020970: 83 ec 0c sub esp,0xc

c0020973: 68 d4 f4 02 c0 push 0xc002f4d4

c0020978: 68 83 ed 02 c0 push 0xc002ed83

c002097d: 68 0c d7 02 c0 push 0xc002d70c

c0020982: 68 e8 01 00 00 push 0x1e8

c0020987: 68 92 f3 02 c0 push 0xc002f392

c002098c: e8 ac 6f 00 00 call c002793d <debug\_panic>

c0020991: 85 d2 test edx,edx

c0020993: 75 21 jne c00209b6 <init\_thread+0x77>

c0020995: 83 ec 0c sub esp,0xc

c0020998: 68 b7 f3 02 c0 push 0xc002f3b7

c002099d: 68 83 ed 02 c0 push 0xc002ed83

c00209a2: 68 0c d7 02 c0 push 0xc002d70c

c00209a7: 68 e9 01 00 00 push 0x1e9

c00209ac: 68 92 f3 02 c0 push 0xc002f392

c00209b1: e8 87 6f 00 00 call c002793d <debug\_panic>

c00209b6: c7 00 00 00 00 00 mov DWORD PTR [eax],0x0

c00209bc: c7 80 a0 00 00 00 00 mov DWORD PTR [eax+0xa0],0x0

c00209c3: 00 00 00

c00209c6: 8d 78 04 lea edi,[eax+0x4]

c00209c9: 83 e7 fc and edi,0xfffffffc

c00209cc: 89 c1 mov ecx,eax

c00209ce: 29 f9 sub ecx,edi

c00209d0: 81 c1 a4 00 00 00 add ecx,0xa4

c00209d6: c1 e9 02 shr ecx,0x2

c00209d9: b8 00 00 00 00 mov eax,0x0

c00209de: f3 ab rep stos DWORD PTR es:[edi],eax

c00209e0: c7 43 04 02 00 00 00 mov DWORD PTR [ebx+0x4],0x2

c00209e7: 83 ec 04 sub esp,0x4

c00209ea: 6a 10 push 0x10

c00209ec: 52 push edx

c00209ed: 8d 43 08 lea eax,[ebx+0x8]

c00209f0: 50 push eax

c00209f1: e8 5b 66 00 00 call c0027051 <strlcpy>

c00209f6: 8d 83 00 10 00 00 lea eax,[ebx+0x1000]

c00209fc: 89 43 18 mov DWORD PTR [ebx+0x18],eax

c00209ff: 89 73 1c mov DWORD PTR [ebx+0x1c],esi

c0020a02: c7 43 34 4b bf 6a cd mov DWORD PTR [ebx+0x34],0xcd6abf4b

c0020a09: 83 c4 08 add esp,0x8

c0020a0c: 8d 43 20 lea eax,[ebx+0x20]

c0020a0f: 50 push eax

c0020a10: 68 a8 9c 03 c0 push 0xc0039ca8

c0020a15: e8 6e 74 00 00 call c0027e88 <list\_push\_back>

c0020a1a: c7 43 74 00 00 00 00 mov DWORD PTR [ebx+0x74],0x0

c0020a21: 8d 43 38 lea eax,[ebx+0x38]

c0020a24: 89 04 24 mov DWORD PTR [esp],eax

c0020a27: e8 b8 6f 00 00 call c00279e4 <list\_init>

c0020a2c: 8d 43 48 lea eax,[ebx+0x48]

c0020a2f: 89 04 24 mov DWORD PTR [esp],eax

c0020a32: e8 ad 6f 00 00 call c00279e4 <list\_init>

c0020a37: c7 43 58 02 00 00 00 mov DWORD PTR [ebx+0x58],0x2

c0020a3e: 8d 83 90 00 00 00 lea eax,[ebx+0x90]

c0020a44: 89 04 24 mov DWORD PTR [esp],eax

c0020a47: e8 98 6f 00 00 call c00279e4 <list\_init>

c0020a4c: c7 83 a0 00 00 00 00 mov DWORD PTR [ebx+0xa0],0x0

c0020a53: 00 00 00

c0020a56: 8d 43 5c lea eax,[ebx+0x5c]

c0020a59: 89 04 24 mov DWORD PTR [esp],eax

c0020a5c: e8 83 6f 00 00 call c00279e4 <list\_init>

c0020a61: c7 43 70 00 00 00 00 mov DWORD PTR [ebx+0x70],0x0

c0020a68: c7 43 6c ff ff ff ff mov DWORD PTR [ebx+0x6c],0xffffffff

c0020a6f: 83 c4 10 add esp,0x10

c0020a72: 5b pop ebx

c0020a73: 5e pop esi

c0020a74: 5f pop edi

c0020a75: c3 ret

c0020a76 <thread\_init>:

c0020a76: 56 push esi

c0020a77: 53 push ebx

c0020a78: 83 ec 04 sub esp,0x4

c0020a7b: e8 c5 09 00 00 call c0021445 <intr\_get\_level>

c0020a80: 85 c0 test eax,eax

c0020a82: 74 1e je c0020aa2 <thread\_init+0x2c>

c0020a84: 83 ec 0c sub esp,0xc

c0020a87: 68 c4 f3 02 c0 push 0xc002f3c4

c0020a8c: 68 83 ed 02 c0 push 0xc002ed83

c0020a91: 68 18 d7 02 c0 push 0xc002d718

c0020a96: 6a 61 push 0x61

c0020a98: 68 92 f3 02 c0 push 0xc002f392

c0020a9d: e8 9b 6e 00 00 call c002793d <debug\_panic>

c0020aa2: 83 ec 0c sub esp,0xc

c0020aa5: 68 80 9c 03 c0 push 0xc0039c80

c0020aaa: e8 52 1c 00 00 call c0022701 <lock\_init>

c0020aaf: c7 04 24 b8 9c 03 c0 mov DWORD PTR [esp],0xc0039cb8

c0020ab6: e8 29 6f 00 00 call c00279e4 <list\_init>

c0020abb: c7 04 24 a8 9c 03 c0 mov DWORD PTR [esp],0xc0039ca8

c0020ac2: e8 1d 6f 00 00 call c00279e4 <list\_init>

c0020ac7: e8 f7 c1 00 00 call c002ccc3 <frame\_table\_init>

c0020acc: 89 e0 mov eax,esp

c0020ace: 25 00 f0 ff ff and eax,0xfffff000

c0020ad3: a3 a0 9c 03 c0 mov ds:0xc0039ca0,eax

c0020ad8: b9 1f 00 00 00 mov ecx,0x1f

c0020add: ba e2 f3 02 c0 mov edx,0xc002f3e2

c0020ae2: e8 58 fe ff ff call c002093f <init\_thread>

c0020ae7: 8b 1d a0 9c 03 c0 mov ebx,DWORD PTR ds:0xc0039ca0

c0020aed: c7 43 04 00 00 00 00 mov DWORD PTR [ebx+0x4],0x0

c0020af4: c7 04 24 80 9c 03 c0 mov DWORD PTR [esp],0xc0039c80

c0020afb: e8 83 1c 00 00 call c0022783 <lock\_acquire>

c0020b00: 8b 35 e0 96 03 c0 mov esi,DWORD PTR ds:0xc00396e0

c0020b06: 8d 46 01 lea eax,[esi+0x1]

c0020b09: a3 e0 96 03 c0 mov ds:0xc00396e0,eax

c0020b0e: c7 04 24 80 9c 03 c0 mov DWORD PTR [esp],0xc0039c80

c0020b15: e8 b9 1d 00 00 call c00228d3 <lock\_release>

c0020b1a: 89 33 mov DWORD PTR [ebx],esi

c0020b1c: 83 c4 14 add esp,0x14

c0020b1f: 5b pop ebx

c0020b20: 5e pop esi

c0020b21: c3 ret

c0020b22 <thread\_print\_stats>:

c0020b22: 83 ec 10 sub esp,0x10

c0020b25: ff 35 6c 9c 03 c0 push DWORD PTR ds:0xc0039c6c

c0020b2b: ff 35 68 9c 03 c0 push DWORD PTR ds:0xc0039c68

c0020b31: ff 35 74 9c 03 c0 push DWORD PTR ds:0xc0039c74

c0020b37: ff 35 70 9c 03 c0 push DWORD PTR ds:0xc0039c70

c0020b3d: ff 35 7c 9c 03 c0 push DWORD PTR ds:0xc0039c7c

c0020b43: ff 35 78 9c 03 c0 push DWORD PTR ds:0xc0039c78

c0020b49: 68 00 f5 02 c0 push 0xc002f500

c0020b4e: e8 72 51 00 00 call c0025cc5 <printf>

c0020b53: 83 c4 2c add esp,0x2c

c0020b56: c3 ret

c0020b57 <thread\_unblock>:

c0020b57: 56 push esi

c0020b58: 53 push ebx

c0020b59: 83 ec 04 sub esp,0x4

c0020b5c: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0020b60: 85 db test ebx,ebx

c0020b62: 74 60 je c0020bc4 <thread\_unblock+0x6d>

c0020b64: 81 7b 34 4b bf 6a cd cmp DWORD PTR [ebx+0x34],0xcd6abf4b

c0020b6b: 75 57 jne c0020bc4 <thread\_unblock+0x6d>

c0020b6d: eb 46 jmp c0020bb5 <thread\_unblock+0x5e>

c0020b6f: 83 ec 0c sub esp,0xc

c0020b72: 68 e7 f3 02 c0 push 0xc002f3e7

c0020b77: 68 83 ed 02 c0 push 0xc002ed83

c0020b7c: 68 b4 d6 02 c0 push 0xc002d6b4

c0020b81: 68 0d 01 00 00 push 0x10d

c0020b86: 68 92 f3 02 c0 push 0xc002f392

c0020b8b: e8 ad 6d 00 00 call c002793d <debug\_panic>

c0020b90: 83 ec 08 sub esp,0x8

c0020b93: 8d 43 28 lea eax,[ebx+0x28]

c0020b96: 50 push eax

c0020b97: 68 b8 9c 03 c0 push 0xc0039cb8

c0020b9c: e8 e7 72 00 00 call c0027e88 <list\_push\_back>

c0020ba1: c7 43 04 01 00 00 00 mov DWORD PTR [ebx+0x4],0x1

c0020ba8: 89 34 24 mov DWORD PTR [esp],esi

c0020bab: e8 d9 08 00 00 call c0021489 <intr\_set\_level>

c0020bb0: 83 c4 10 add esp,0x10

c0020bb3: eb 30 jmp c0020be5 <thread\_unblock+0x8e>

c0020bb5: e8 c8 08 00 00 call c0021482 <intr\_disable>

c0020bba: 89 c6 mov esi,eax

c0020bbc: 83 7b 04 02 cmp DWORD PTR [ebx+0x4],0x2

c0020bc0: 74 ce je c0020b90 <thread\_unblock+0x39>

c0020bc2: eb ab jmp c0020b6f <thread\_unblock+0x18>

c0020bc4: 83 ec 0c sub esp,0xc

c0020bc7: 68 a9 f3 02 c0 push 0xc002f3a9

c0020bcc: 68 83 ed 02 c0 push 0xc002ed83

c0020bd1: 68 b4 d6 02 c0 push 0xc002d6b4

c0020bd6: 68 0a 01 00 00 push 0x10a

c0020bdb: 68 92 f3 02 c0 push 0xc002f392

c0020be0: e8 58 6d 00 00 call c002793d <debug\_panic>

c0020be5: 83 c4 04 add esp,0x4

c0020be8: 5b pop ebx

c0020be9: 5e pop esi

c0020bea: c3 ret

c0020beb <thread\_current>:

c0020beb: 83 ec 0c sub esp,0xc

c0020bee: 89 e0 mov eax,esp

c0020bf0: 25 00 f0 ff ff and eax,0xfffff000

c0020bf5: 74 34 je c0020c2b <thread\_current+0x40>

c0020bf7: 81 78 34 4b bf 6a cd cmp DWORD PTR [eax+0x34],0xcd6abf4b

c0020bfe: 75 2b jne c0020c2b <thread\_current+0x40>

c0020c00: eb 21 jmp c0020c23 <thread\_current+0x38>

c0020c02: 83 ec 0c sub esp,0xc

c0020c05: 68 03 f4 02 c0 push 0xc002f403

c0020c0a: 68 83 ed 02 c0 push 0xc002ed83

c0020c0f: 68 a4 d6 02 c0 push 0xc002d6a4

c0020c14: 68 28 01 00 00 push 0x128

c0020c19: 68 92 f3 02 c0 push 0xc002f392

c0020c1e: e8 1a 6d 00 00 call c002793d <debug\_panic>

c0020c23: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0020c27: 74 23 je c0020c4c <thread\_current+0x61>

c0020c29: eb d7 jmp c0020c02 <thread\_current+0x17>

c0020c2b: 83 ec 0c sub esp,0xc

c0020c2e: 68 a9 f3 02 c0 push 0xc002f3a9

c0020c33: 68 83 ed 02 c0 push 0xc002ed83

c0020c38: 68 a4 d6 02 c0 push 0xc002d6a4

c0020c3d: 68 27 01 00 00 push 0x127

c0020c42: 68 92 f3 02 c0 push 0xc002f392

c0020c47: e8 f1 6c 00 00 call c002793d <debug\_panic>

c0020c4c: 83 c4 0c add esp,0xc

c0020c4f: c3 ret

c0020c50 <thread\_tick>:

c0020c50: 83 ec 0c sub esp,0xc

c0020c53: e8 93 ff ff ff call c0020beb <thread\_current>

c0020c58: 3b 05 a4 9c 03 c0 cmp eax,DWORD PTR ds:0xc0039ca4

c0020c5e: 75 10 jne c0020c70 <thread\_tick+0x20>

c0020c60: 83 05 78 9c 03 c0 01 add DWORD PTR ds:0xc0039c78,0x1

c0020c67: 83 15 7c 9c 03 c0 00 adc DWORD PTR ds:0xc0039c7c,0x0

c0020c6e: eb 24 jmp c0020c94 <thread\_tick+0x44>

c0020c70: 83 78 30 00 cmp DWORD PTR [eax+0x30],0x0

c0020c74: 74 10 je c0020c86 <thread\_tick+0x36>

c0020c76: 83 05 68 9c 03 c0 01 add DWORD PTR ds:0xc0039c68,0x1

c0020c7d: 83 15 6c 9c 03 c0 00 adc DWORD PTR ds:0xc0039c6c,0x0

c0020c84: eb 0e jmp c0020c94 <thread\_tick+0x44>

c0020c86: 83 05 70 9c 03 c0 01 add DWORD PTR ds:0xc0039c70,0x1

c0020c8d: 83 15 74 9c 03 c0 00 adc DWORD PTR ds:0xc0039c74,0x0

c0020c94: a1 60 9c 03 c0 mov eax,ds:0xc0039c60

c0020c99: 83 c0 01 add eax,0x1

c0020c9c: a3 60 9c 03 c0 mov ds:0xc0039c60,eax

c0020ca1: 83 f8 03 cmp eax,0x3

c0020ca4: 76 05 jbe c0020cab <thread\_tick+0x5b>

c0020ca6: e8 1e 0a 00 00 call c00216c9 <intr\_yield\_on\_return>

c0020cab: 83 c4 0c add esp,0xc

c0020cae: c3 ret

c0020caf <thread\_name>:

c0020caf: 83 ec 0c sub esp,0xc

c0020cb2: e8 34 ff ff ff call c0020beb <thread\_current>

c0020cb7: 83 c0 08 add eax,0x8

c0020cba: 83 c4 0c add esp,0xc

c0020cbd: c3 ret

c0020cbe <thread\_tid>:

c0020cbe: 83 ec 0c sub esp,0xc

c0020cc1: e8 25 ff ff ff call c0020beb <thread\_current>

c0020cc6: 8b 00 mov eax,DWORD PTR [eax]

c0020cc8: 83 c4 0c add esp,0xc

c0020ccb: c3 ret

c0020ccc <thread\_create>:

c0020ccc: 55 push ebp

c0020ccd: 57 push edi

c0020cce: 56 push esi

c0020ccf: 53 push ebx

c0020cd0: 83 ec 0c sub esp,0xc

c0020cd3: 8b 7c 24 28 mov edi,DWORD PTR [esp+0x28]

c0020cd7: 85 ff test edi,edi

c0020cd9: 75 21 jne c0020cfc <thread\_create+0x30>

c0020cdb: 83 ec 0c sub esp,0xc

c0020cde: 68 1f f4 02 c0 push 0xc002f41f

c0020ce3: 68 83 ed 02 c0 push 0xc002ed83

c0020ce8: 68 fc d6 02 c0 push 0xc002d6fc

c0020ced: 68 bb 00 00 00 push 0xbb

c0020cf2: 68 92 f3 02 c0 push 0xc002f392

c0020cf7: e8 41 6c 00 00 call c002793d <debug\_panic>

c0020cfc: 83 ec 0c sub esp,0xc

c0020cff: 6a 02 push 0x2

c0020d01: e8 85 20 00 00 call c0022d8b <palloc\_get\_page>

c0020d06: 89 c3 mov ebx,eax

c0020d08: c7 04 24 30 f4 02 c0 mov DWORD PTR [esp],0xc002f430

c0020d0f: e8 3c 87 00 00 call c0029450 <puts>

c0020d14: 83 c4 08 add esp,0x8

c0020d17: 53 push ebx

c0020d18: 68 40 f5 02 c0 push 0xc002f540

c0020d1d: e8 a3 4f 00 00 call c0025cc5 <printf>

c0020d22: 83 c4 10 add esp,0x10

c0020d25: 85 db test ebx,ebx

c0020d27: 0f 84 f0 00 00 00 je c0020e1d <thread\_create+0x151>

c0020d2d: 8b 4c 24 24 mov ecx,DWORD PTR [esp+0x24]

c0020d31: 8b 54 24 20 mov edx,DWORD PTR [esp+0x20]

c0020d35: 89 d8 mov eax,ebx

c0020d37: e8 03 fc ff ff call c002093f <init\_thread>

c0020d3c: 83 ec 0c sub esp,0xc

c0020d3f: 68 80 9c 03 c0 push 0xc0039c80

c0020d44: e8 3a 1a 00 00 call c0022783 <lock\_acquire>

c0020d49: 8b 35 e0 96 03 c0 mov esi,DWORD PTR ds:0xc00396e0

c0020d4f: 8d 46 01 lea eax,[esi+0x1]

c0020d52: a3 e0 96 03 c0 mov ds:0xc00396e0,eax

c0020d57: c7 04 24 80 9c 03 c0 mov DWORD PTR [esp],0xc0039c80

c0020d5e: e8 70 1b 00 00 call c00228d3 <lock\_release>

c0020d63: 89 33 mov DWORD PTR [ebx],esi

c0020d65: 83 c4 08 add esp,0x8

c0020d68: 8d 43 08 lea eax,[ebx+0x8]

c0020d6b: 50 push eax

c0020d6c: 68 40 f4 02 c0 push 0xc002f440

c0020d71: e8 4f 4f 00 00 call c0025cc5 <printf>

c0020d76: 83 c4 08 add esp,0x8

c0020d79: ff 33 push DWORD PTR [ebx]

c0020d7b: 68 52 f4 02 c0 push 0xc002f452

c0020d80: e8 40 4f 00 00 call c0025cc5 <printf>

c0020d85: e8 f8 06 00 00 call c0021482 <intr\_disable>

c0020d8a: 89 c5 mov ebp,eax

c0020d8c: ba 0c 00 00 00 mov edx,0xc

c0020d91: 89 d8 mov eax,ebx

c0020d93: e8 3e fb ff ff call c00208d6 <alloc\_frame>

c0020d98: c7 00 00 00 00 00 mov DWORD PTR [eax],0x0

c0020d9e: 89 78 04 mov DWORD PTR [eax+0x4],edi

c0020da1: 8b 54 24 3c mov edx,DWORD PTR [esp+0x3c]

c0020da5: 89 50 08 mov DWORD PTR [eax+0x8],edx

c0020da8: ba 04 00 00 00 mov edx,0x4

c0020dad: 89 d8 mov eax,ebx

c0020daf: e8 22 fb ff ff call c00208d6 <alloc\_frame>

c0020db4: c7 00 b6 12 02 c0 mov DWORD PTR [eax],0xc00212b6

c0020dba: ba 1c 00 00 00 mov edx,0x1c

c0020dbf: 89 d8 mov eax,ebx

c0020dc1: e8 10 fb ff ff call c00208d6 <alloc\_frame>

c0020dc6: c7 40 10 13 13 02 c0 mov DWORD PTR [eax+0x10],0xc0021313

c0020dcd: c7 40 08 00 00 00 00 mov DWORD PTR [eax+0x8],0x0

c0020dd4: 89 2c 24 mov DWORD PTR [esp],ebp

c0020dd7: e8 ad 06 00 00 call c0021489 <intr\_set\_level>

c0020ddc: e8 dd fe ff ff call c0020cbe <thread\_tid>

c0020de1: 89 43 6c mov DWORD PTR [ebx+0x6c],eax

c0020de4: 83 c4 08 add esp,0x8

c0020de7: ff 33 push DWORD PTR [ebx]

c0020de9: 68 68 f4 02 c0 push 0xc002f468

c0020dee: e8 d2 4e 00 00 call c0025cc5 <printf>

c0020df3: 83 c4 08 add esp,0x8

c0020df6: ff 73 6c push DWORD PTR [ebx+0x6c]

c0020df9: 68 73 f4 02 c0 push 0xc002f473

c0020dfe: e8 c2 4e 00 00 call c0025cc5 <printf>

c0020e03: 83 c4 04 add esp,0x4

c0020e06: ff 33 push DWORD PTR [ebx]

c0020e08: e8 f2 a0 00 00 call c002aeff <add\_child\_process>

c0020e0d: 89 43 70 mov DWORD PTR [ebx+0x70],eax

c0020e10: 89 1c 24 mov DWORD PTR [esp],ebx

c0020e13: e8 3f fd ff ff call c0020b57 <thread\_unblock>

c0020e18: 83 c4 10 add esp,0x10

c0020e1b: eb 05 jmp c0020e22 <thread\_create+0x156>

c0020e1d: be ff ff ff ff mov esi,0xffffffff

c0020e22: 89 f0 mov eax,esi

c0020e24: 83 c4 0c add esp,0xc

c0020e27: 5b pop ebx

c0020e28: 5e pop esi

c0020e29: 5f pop edi

c0020e2a: 5d pop ebp

c0020e2b: c3 ret

c0020e2c <thread\_start>:

c0020e2c: 53 push ebx

c0020e2d: 83 ec 30 sub esp,0x30

c0020e30: 6a 00 push 0x0

c0020e32: 8d 5c 24 18 lea ebx,[esp+0x18]

c0020e36: 53 push ebx

c0020e37: e8 85 16 00 00 call c00224c1 <sema\_init>

c0020e3c: 53 push ebx

c0020e3d: 68 fc 10 02 c0 push 0xc00210fc

c0020e42: 6a 00 push 0x0

c0020e44: 68 81 f4 02 c0 push 0xc002f481

c0020e49: e8 7e fe ff ff call c0020ccc <thread\_create>

c0020e4e: 83 c4 20 add esp,0x20

c0020e51: e8 f8 05 00 00 call c002144e <intr\_enable>

c0020e56: 83 ec 0c sub esp,0xc

c0020e59: 53 push ebx

c0020e5a: e8 a1 16 00 00 call c0022500 <sema\_down>

c0020e5f: 83 c4 38 add esp,0x38

c0020e62: 5b pop ebx

c0020e63: c3 ret

c0020e64 <thread\_foreach>:

c0020e64: 57 push edi

c0020e65: 56 push esi

c0020e66: 53 push ebx

c0020e67: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0020e6b: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c0020e6f: e8 d1 05 00 00 call c0021445 <intr\_get\_level>

c0020e74: 85 c0 test eax,eax

c0020e76: 74 21 je c0020e99 <thread\_foreach+0x35>

c0020e78: 83 ec 0c sub esp,0xc

c0020e7b: 68 c4 f3 02 c0 push 0xc002f3c4

c0020e80: 68 83 ed 02 c0 push 0xc002ed83

c0020e85: 68 78 d6 02 c0 push 0xc002d678

c0020e8a: 68 63 01 00 00 push 0x163

c0020e8f: 68 92 f3 02 c0 push 0xc002f392

c0020e94: e8 a4 6a 00 00 call c002793d <debug\_panic>

c0020e99: 83 ec 0c sub esp,0xc

c0020e9c: 68 a8 9c 03 c0 push 0xc0039ca8

c0020ea1: e8 81 6b 00 00 call c0027a27 <list\_begin>

c0020ea6: 89 c3 mov ebx,eax

c0020ea8: 83 c4 10 add esp,0x10

c0020eab: eb 17 jmp c0020ec4 <thread\_foreach+0x60>

c0020ead: 83 ec 08 sub esp,0x8

c0020eb0: 57 push edi

c0020eb1: 8d 43 e0 lea eax,[ebx-0x20]

c0020eb4: 50 push eax

c0020eb5: ff d6 call esi

c0020eb7: 89 1c 24 mov DWORD PTR [esp],ebx

c0020eba: e8 98 6b 00 00 call c0027a57 <list\_next>

c0020ebf: 89 c3 mov ebx,eax

c0020ec1: 83 c4 10 add esp,0x10

c0020ec4: 83 ec 0c sub esp,0xc

c0020ec7: 68 a8 9c 03 c0 push 0xc0039ca8

c0020ecc: e8 cc 6b 00 00 call c0027a9d <list\_end>

c0020ed1: 83 c4 10 add esp,0x10

c0020ed4: 39 c3 cmp ebx,eax

c0020ed6: 75 d5 jne c0020ead <thread\_foreach+0x49>

c0020ed8: 5b pop ebx

c0020ed9: 5e pop esi

c0020eda: 5f pop edi

c0020edb: c3 ret

c0020edc <thread\_set\_priority>:

c0020edc: 83 ec 0c sub esp,0xc

c0020edf: e8 07 fd ff ff call c0020beb <thread\_current>

c0020ee4: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c0020ee8: 89 50 1c mov DWORD PTR [eax+0x1c],edx

c0020eeb: 83 c4 0c add esp,0xc

c0020eee: c3 ret

c0020eef <thread\_get\_priority>:

c0020eef: 83 ec 0c sub esp,0xc

c0020ef2: e8 f4 fc ff ff call c0020beb <thread\_current>

c0020ef7: 8b 40 1c mov eax,DWORD PTR [eax+0x1c]

c0020efa: 83 c4 0c add esp,0xc

c0020efd: c3 ret

c0020efe <thread\_set\_nice>:

c0020efe: f3 c3 repz ret

c0020f00 <thread\_get\_nice>:

c0020f00: b8 00 00 00 00 mov eax,0x0

c0020f05: c3 ret

c0020f06 <thread\_get\_load\_avg>:

c0020f06: b8 00 00 00 00 mov eax,0x0

c0020f0b: c3 ret

c0020f0c <thread\_get\_recent\_cpu>:

c0020f0c: b8 00 00 00 00 mov eax,0x0

c0020f11: c3 ret

c0020f12 <thread\_schedule\_tail>:

c0020f12: 56 push esi

c0020f13: 53 push ebx

c0020f14: 83 ec 04 sub esp,0x4

c0020f17: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0020f1b: 89 e3 mov ebx,esp

c0020f1d: 81 e3 00 f0 ff ff and ebx,0xfffff000

c0020f23: e8 1d 05 00 00 call c0021445 <intr\_get\_level>

c0020f28: 85 c0 test eax,eax

c0020f2a: 74 21 je c0020f4d <thread\_schedule\_tail+0x

3b>

c0020f2c: 83 ec 0c sub esp,0xc

c0020f2f: 68 c4 f3 02 c0 push 0xc002f3c4

c0020f34: 68 83 ed 02 c0 push 0xc002ed83

c0020f39: 68 60 d6 02 c0 push 0xc002d660

c0020f3e: 68 32 02 00 00 push 0x232

c0020f43: 68 92 f3 02 c0 push 0xc002f392

c0020f48: e8 f0 69 00 00 call c002793d <debug\_panic>

c0020f4d: c7 43 04 00 00 00 00 mov DWORD PTR [ebx+0x4],0x0

c0020f54: c7 05 60 9c 03 c0 00 mov DWORD PTR ds:0xc0039c60,0x0

c0020f5b: 00 00 00

c0020f5e: e8 9f 86 00 00 call c0029602 <process\_activate>

c0020f63: 85 f6 test esi,esi

c0020f65: 74 3f je c0020fa6 <thread\_schedule\_tail+0x

94>

c0020f67: 83 7e 04 03 cmp DWORD PTR [esi+0x4],0x3

c0020f6b: 75 39 jne c0020fa6 <thread\_schedule\_tail+0x

94>

c0020f6d: 3b 35 a0 9c 03 c0 cmp esi,DWORD PTR ds:0xc0039ca0

c0020f73: 74 31 je c0020fa6 <thread\_schedule\_tail+0x

94>

c0020f75: 39 de cmp esi,ebx

c0020f77: 75 21 jne c0020f9a <thread\_schedule\_tail+0x

88>

c0020f79: 83 ec 0c sub esp,0xc

c0020f7c: 68 86 f4 02 c0 push 0xc002f486

c0020f81: 68 83 ed 02 c0 push 0xc002ed83

c0020f86: 68 60 d6 02 c0 push 0xc002d660

c0020f8b: 68 46 02 00 00 push 0x246

c0020f90: 68 92 f3 02 c0 push 0xc002f392

c0020f95: e8 a3 69 00 00 call c002793d <debug\_panic>

c0020f9a: 83 ec 0c sub esp,0xc

c0020f9d: 56 push esi

c0020f9e: e8 1e 1f 00 00 call c0022ec1 <palloc\_free\_page>

c0020fa3: 83 c4 10 add esp,0x10

c0020fa6: 83 c4 04 add esp,0x4

c0020fa9: 5b pop ebx

c0020faa: 5e pop esi

c0020fab: c3 ret

c0020fac <schedule>:

c0020fac: 56 push esi

c0020fad: 53 push ebx

c0020fae: 83 ec 10 sub esp,0x10

c0020fb1: 89 e3 mov ebx,esp

c0020fb3: 81 e3 00 f0 ff ff and ebx,0xfffff000

c0020fb9: 68 b8 9c 03 c0 push 0xc0039cb8

c0020fbe: e8 6f 6f 00 00 call c0027f32 <list\_empty>

c0020fc3: 83 c4 10 add esp,0x10

c0020fc6: 8b 35 a4 9c 03 c0 mov esi,DWORD PTR ds:0xc0039ca4

c0020fcc: 84 c0 test al,al

c0020fce: 75 13 jne c0020fe3 <schedule+0x37>

c0020fd0: 83 ec 0c sub esp,0xc

c0020fd3: 68 b8 9c 03 c0 push 0xc0039cb8

c0020fd8: e8 b7 6f 00 00 call c0027f94 <list\_pop\_front>

c0020fdd: 8d 70 d8 lea esi,[eax-0x28]

c0020fe0: 83 c4 10 add esp,0x10

c0020fe3: e8 5d 04 00 00 call c0021445 <intr\_get\_level>

c0020fe8: 85 c0 test eax,eax

c0020fea: 74 21 je c002100d <schedule+0x61>

c0020fec: 83 ec 0c sub esp,0xc

c0020fef: 68 c4 f3 02 c0 push 0xc002f3c4

c0020ff4: 68 83 ed 02 c0 push 0xc002ed83

c0020ff9: 68 c4 d6 02 c0 push 0xc002d6c4

c0020ffe: 68 5a 02 00 00 push 0x25a

c0021003: 68 92 f3 02 c0 push 0xc002f392

c0021008: e8 30 69 00 00 call c002793d <debug\_panic>

c002100d: 83 7b 04 00 cmp DWORD PTR [ebx+0x4],0x0

c0021011: 75 21 jne c0021034 <schedule+0x88>

c0021013: 83 ec 0c sub esp,0xc

c0021016: 68 92 f4 02 c0 push 0xc002f492

c002101b: 68 83 ed 02 c0 push 0xc002ed83

c0021020: 68 c4 d6 02 c0 push 0xc002d6c4

c0021025: 68 5b 02 00 00 push 0x25b

c002102a: 68 92 f3 02 c0 push 0xc002f392

c002102f: e8 09 69 00 00 call c002793d <debug\_panic>

c0021034: 85 f6 test esi,esi

c0021036: 74 31 je c0021069 <schedule+0xbd>

c0021038: 81 7e 34 4b bf 6a cd cmp DWORD PTR [esi+0x34],0xcd6abf4b

c002103f: 75 28 jne c0021069 <schedule+0xbd>

c0021041: eb 1b jmp c002105e <schedule+0xb2>

c0021043: 83 ec 08 sub esp,0x8

c0021046: 56 push esi

c0021047: 53 push ebx

c0021048: e8 a9 02 00 00 call c00212f6 <switch\_threads>

c002104d: 83 c4 10 add esp,0x10

c0021050: 83 ec 0c sub esp,0xc

c0021053: 50 push eax

c0021054: e8 b9 fe ff ff call c0020f12 <thread\_schedule\_tail>

c0021059: 83 c4 10 add esp,0x10

c002105c: eb 2c jmp c002108a <schedule+0xde>

c002105e: b8 00 00 00 00 mov eax,0x0

c0021063: 39 de cmp esi,ebx

c0021065: 74 e9 je c0021050 <schedule+0xa4>

c0021067: eb da jmp c0021043 <schedule+0x97>

c0021069: 83 ec 0c sub esp,0xc

c002106c: 68 b0 f4 02 c0 push 0xc002f4b0

c0021071: 68 83 ed 02 c0 push 0xc002ed83

c0021076: 68 c4 d6 02 c0 push 0xc002d6c4

c002107b: 68 5c 02 00 00 push 0x25c

c0021080: 68 92 f3 02 c0 push 0xc002f392

c0021085: e8 b3 68 00 00 call c002793d <debug\_panic>

c002108a: 83 c4 04 add esp,0x4

c002108d: 5b pop ebx

c002108e: 5e pop esi

c002108f: c3 ret

c0021090 <thread\_block>:

c0021090: 83 ec 0c sub esp,0xc

c0021093: e8 29 06 00 00 call c00216c1 <intr\_context>

c0021098: 84 c0 test al,al

c002109a: 74 21 je c00210bd <thread\_block+0x2d>

c002109c: 83 ec 0c sub esp,0xc

c002109f: 68 c1 f4 02 c0 push 0xc002f4c1

c00210a4: 68 83 ed 02 c0 push 0xc002ed83

c00210a9: 68 d0 d6 02 c0 push 0xc002d6d0

c00210ae: 68 f6 00 00 00 push 0xf6

c00210b3: 68 92 f3 02 c0 push 0xc002f392

c00210b8: e8 80 68 00 00 call c002793d <debug\_panic>

c00210bd: e8 83 03 00 00 call c0021445 <intr\_get\_level>

c00210c2: 85 c0 test eax,eax

c00210c4: 74 21 je c00210e7 <thread\_block+0x57>

c00210c6: 83 ec 0c sub esp,0xc

c00210c9: 68 c4 f3 02 c0 push 0xc002f3c4

c00210ce: 68 83 ed 02 c0 push 0xc002ed83

c00210d3: 68 d0 d6 02 c0 push 0xc002d6d0

c00210d8: 68 f7 00 00 00 push 0xf7

c00210dd: 68 92 f3 02 c0 push 0xc002f392

c00210e2: e8 56 68 00 00 call c002793d <debug\_panic>

c00210e7: e8 ff fa ff ff call c0020beb <thread\_current>

c00210ec: c7 40 04 02 00 00 00 mov DWORD PTR [eax+0x4],0x2

c00210f3: e8 b4 fe ff ff call c0020fac <schedule>

c00210f8: 83 c4 0c add esp,0xc

c00210fb: c3 ret

c00210fc <idle>:

c00210fc: 83 ec 0c sub esp,0xc

c00210ff: e8 e7 fa ff ff call c0020beb <thread\_current>

c0021104: a3 a4 9c 03 c0 mov ds:0xc0039ca4,eax

c0021109: 83 ec 0c sub esp,0xc

c002110c: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0021110: e8 d6 14 00 00 call c00225eb <sema\_up>

c0021115: 83 c4 10 add esp,0x10

c0021118: e8 65 03 00 00 call c0021482 <intr\_disable>

c002111d: e8 6e ff ff ff call c0021090 <thread\_block>

c0021122: fb sti

c0021123: f4 hlt

c0021124: eb f2 jmp c0021118 <idle+0x1c>

c0021126 <thread\_yield>:

c0021126: 56 push esi

c0021127: 53 push ebx

c0021128: 83 ec 04 sub esp,0x4

c002112b: e8 bb fa ff ff call c0020beb <thread\_current>

c0021130: 89 c3 mov ebx,eax

c0021132: e8 8a 05 00 00 call c00216c1 <intr\_context>

c0021137: 84 c0 test al,al

c0021139: 74 21 je c002115c <thread\_yield+0x36>

c002113b: 83 ec 0c sub esp,0xc

c002113e: 68 c1 f4 02 c0 push 0xc002f4c1

c0021143: 68 83 ed 02 c0 push 0xc002ed83

c0021148: 68 88 d6 02 c0 push 0xc002d688

c002114d: 68 52 01 00 00 push 0x152

c0021152: 68 92 f3 02 c0 push 0xc002f392

c0021157: e8 e1 67 00 00 call c002793d <debug\_panic>

c002115c: e8 21 03 00 00 call c0021482 <intr\_disable>

c0021161: 89 c6 mov esi,eax

c0021163: 3b 1d a4 9c 03 c0 cmp ebx,DWORD PTR ds:0xc0039ca4

c0021169: 74 14 je c002117f <thread\_yield+0x59>

c002116b: 83 ec 08 sub esp,0x8

c002116e: 8d 43 28 lea eax,[ebx+0x28]

c0021171: 50 push eax

c0021172: 68 b8 9c 03 c0 push 0xc0039cb8

c0021177: e8 0c 6d 00 00 call c0027e88 <list\_push\_back>

c002117c: 83 c4 10 add esp,0x10

c002117f: c7 43 04 01 00 00 00 mov DWORD PTR [ebx+0x4],0x1

c0021186: e8 21 fe ff ff call c0020fac <schedule>

c002118b: 83 ec 0c sub esp,0xc

c002118e: 56 push esi

c002118f: e8 f5 02 00 00 call c0021489 <intr\_set\_level>

c0021194: 83 c4 14 add esp,0x14

c0021197: 5b pop ebx

c0021198: 5e pop esi

c0021199: c3 ret

c002119a <thread\_alive>:

c002119a: 56 push esi

c002119b: 53 push ebx

c002119c: 83 ec 10 sub esp,0x10

c002119f: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c00211a3: 68 a8 9c 03 c0 push 0xc0039ca8

c00211a8: e8 7a 68 00 00 call c0027a27 <list\_begin>

c00211ad: 89 c3 mov ebx,eax

c00211af: 83 c4 10 add esp,0x10

c00211b2: eb 13 jmp c00211c7 <thread\_alive+0x2d>

c00211b4: 39 73 e0 cmp DWORD PTR [ebx-0x20],esi

c00211b7: 74 29 je c00211e2 <thread\_alive+0x48>

c00211b9: 83 ec 0c sub esp,0xc

c00211bc: 53 push ebx

c00211bd: e8 95 68 00 00 call c0027a57 <list\_next>

c00211c2: 89 c3 mov ebx,eax

c00211c4: 83 c4 10 add esp,0x10

c00211c7: 83 ec 0c sub esp,0xc

c00211ca: 68 a8 9c 03 c0 push 0xc0039ca8

c00211cf: e8 c9 68 00 00 call c0027a9d <list\_end>

c00211d4: 83 c4 10 add esp,0x10

c00211d7: 39 c3 cmp ebx,eax

c00211d9: 75 d9 jne c00211b4 <thread\_alive+0x1a>

c00211db: b8 00 00 00 00 mov eax,0x0

c00211e0: eb 05 jmp c00211e7 <thread\_alive+0x4d>

c00211e2: b8 01 00 00 00 mov eax,0x1

c00211e7: 83 c4 04 add esp,0x4

c00211ea: 5b pop ebx

c00211eb: 5e pop esi

c00211ec: c3 ret

c00211ed <release\_locks>:

c00211ed: 57 push edi

c00211ee: 56 push esi

c00211ef: 53 push ebx

c00211f0: e8 f6 f9 ff ff call c0020beb <thread\_current>

c00211f5: 8d 78 38 lea edi,[eax+0x38]

c00211f8: 83 ec 0c sub esp,0xc

c00211fb: 57 push edi

c00211fc: e8 26 68 00 00 call c0027a27 <list\_begin>

c0021201: 89 c3 mov ebx,eax

c0021203: 83 c4 10 add esp,0x10

c0021206: eb 23 jmp c002122b <release\_locks+0x3e>

c0021208: 83 ec 0c sub esp,0xc

c002120b: 53 push ebx

c002120c: e8 46 68 00 00 call c0027a57 <list\_next>

c0021211: 89 c6 mov esi,eax

c0021213: 8d 43 e8 lea eax,[ebx-0x18]

c0021216: 89 04 24 mov DWORD PTR [esp],eax

c0021219: e8 b5 16 00 00 call c00228d3 <lock\_release>

c002121e: 89 1c 24 mov DWORD PTR [esp],ebx

c0021221: e8 7f 6c 00 00 call c0027ea5 <list\_remove>

c0021226: 83 c4 10 add esp,0x10

c0021229: 89 f3 mov ebx,esi

c002122b: 83 ec 0c sub esp,0xc

c002122e: 57 push edi

c002122f: e8 69 68 00 00 call c0027a9d <list\_end>

c0021234: 83 c4 10 add esp,0x10

c0021237: 39 c3 cmp ebx,eax

c0021239: 75 cd jne c0021208 <release\_locks+0x1b>

c002123b: 5b pop ebx

c002123c: 5e pop esi

c002123d: 5f pop edi

c002123e: c3 ret

c002123f <thread\_exit>:

c002123f: 83 ec 0c sub esp,0xc

c0021242: e8 7a 04 00 00 call c00216c1 <intr\_context>

c0021247: 84 c0 test al,al

c0021249: 74 21 je c002126c <thread\_exit+0x2d>

c002124b: 83 ec 0c sub esp,0xc

c002124e: 68 c1 f4 02 c0 push 0xc002f4c1

c0021253: 68 83 ed 02 c0 push 0xc002ed83

c0021258: 68 98 d6 02 c0 push 0xc002d698

c002125d: 68 39 01 00 00 push 0x139

c0021262: 68 92 f3 02 c0 push 0xc002f392

c0021267: e8 d1 66 00 00 call c002793d <debug\_panic>

c002126c: e8 75 8d 00 00 call c0029fe6 <process\_exit>

c0021271: e8 0c 02 00 00 call c0021482 <intr\_disable>

c0021276: e8 72 ff ff ff call c00211ed <release\_locks>

c002127b: e8 6b f9 ff ff call c0020beb <thread\_current>

c0021280: 83 ec 0c sub esp,0xc

c0021283: 83 c0 20 add eax,0x20

c0021286: 50 push eax

c0021287: e8 19 6c 00 00 call c0027ea5 <list\_remove>

c002128c: e8 5a f9 ff ff call c0020beb <thread\_current>

c0021291: c7 40 04 03 00 00 00 mov DWORD PTR [eax+0x4],0x3

c0021298: e8 0f fd ff ff call c0020fac <schedule>

c002129d: 68 64 f5 02 c0 push 0xc002f564

c00212a2: 68 98 d6 02 c0 push 0xc002d698

c00212a7: 68 47 01 00 00 push 0x147

c00212ac: 68 92 f3 02 c0 push 0xc002f392

c00212b1: e8 87 66 00 00 call c002793d <debug\_panic>

c00212b6 <kernel\_thread>:

c00212b6: 53 push ebx

c00212b7: 83 ec 08 sub esp,0x8

c00212ba: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00212be: 85 db test ebx,ebx

c00212c0: 75 21 jne c00212e3 <kernel\_thread+0x2d>

c00212c2: 83 ec 0c sub esp,0xc

c00212c5: 68 1f f4 02 c0 push 0xc002f41f

c00212ca: 68 83 ed 02 c0 push 0xc002ed83

c00212cf: 68 ec d6 02 c0 push 0xc002d6ec

c00212d4: 68 c4 01 00 00 push 0x1c4

c00212d9: 68 92 f3 02 c0 push 0xc002f392

c00212de: e8 5a 66 00 00 call c002793d <debug\_panic>

c00212e3: e8 66 01 00 00 call c002144e <intr\_enable>

c00212e8: 83 ec 0c sub esp,0xc

c00212eb: ff 74 24 20 push DWORD PTR [esp+0x20]

c00212ef: ff d3 call ebx

c00212f1: e8 49 ff ff ff call c002123f <thread\_exit>

c00212f6 <switch\_threads>:

c00212f6: 53 push ebx

c00212f7: 55 push ebp

c00212f8: 56 push esi

c00212f9: 57 push edi

c00212fa: 8b 15 e4 96 03 c0 mov edx,DWORD PTR ds:0xc00396e4

c0021300: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0021304: 89 24 10 mov DWORD PTR [eax+edx\*1],esp

c0021307: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

c002130b: 8b 24 11 mov esp,DWORD PTR [ecx+edx\*1]

c002130e: 5f pop edi

c002130f: 5e pop esi

c0021310: 5d pop ebp

c0021311: 5b pop ebx

c0021312: c3 ret

c0021313 <switch\_entry>:

c0021313: 83 c4 08 add esp,0x8

c0021316: 50 push eax

c0021317: e8 f6 fb ff ff call c0020f12 <thread\_schedule\_tail>

c002131c: 83 c4 04 add esp,0x4

c002131f: c3 ret

c0021320 <make\_gate>:

c0021320: 83 ec 0c sub esp,0xc

c0021323: 85 c0 test eax,eax

c0021325: 75 21 jne c0021348 <make\_gate+0x28>

c0021327: 83 ec 0c sub esp,0xc

c002132a: 68 1f f4 02 c0 push 0xc002f41f

c002132f: 68 83 ed 02 c0 push 0xc002ed83

c0021334: 68 a0 d7 02 c0 push 0xc002d7a0

c0021339: 68 2a 01 00 00 push 0x12a

c002133e: 68 86 f5 02 c0 push 0xc002f586

c0021343: e8 f5 65 00 00 call c002793d <debug\_panic>

c0021348: 83 fa 03 cmp edx,0x3

c002134b: 76 21 jbe c002136e <make\_gate+0x4e>

c002134d: 83 ec 0c sub esp,0xc

c0021350: 68 a0 f5 02 c0 push 0xc002f5a0

c0021355: 68 83 ed 02 c0 push 0xc002ed83

c002135a: 68 a0 d7 02 c0 push 0xc002d7a0

c002135f: 68 2b 01 00 00 push 0x12b

c0021364: 68 86 f5 02 c0 push 0xc002f586

c0021369: e8 cf 65 00 00 call c002793d <debug\_panic>

c002136e: 83 f9 0f cmp ecx,0xf

c0021371: 76 21 jbe c0021394 <make\_gate+0x74>

c0021373: 83 ec 0c sub esp,0xc

c0021376: 68 b5 f5 02 c0 push 0xc002f5b5

c002137b: 68 83 ed 02 c0 push 0xc002ed83

c0021380: 68 a0 d7 02 c0 push 0xc002d7a0

c0021385: 68 2c 01 00 00 push 0x12c

c002138a: 68 86 f5 02 c0 push 0xc002f586

c002138f: e8 a9 65 00 00 call c002793d <debug\_panic>

c0021394: c1 e1 08 shl ecx,0x8

c0021397: 80 cd 80 or ch,0x80

c002139a: c1 e2 0d shl edx,0xd

c002139d: 09 ca or edx,ecx

c002139f: 89 c1 mov ecx,eax

c00213a1: 66 b9 00 00 mov cx,0x0

c00213a5: 09 ca or edx,ecx

c00213a7: 0f b7 c0 movzx eax,ax

c00213aa: 0d 00 00 08 00 or eax,0x80000

c00213af: 83 c4 0c add esp,0xc

c00213b2: c3 ret

c00213b3 <register\_handler>:

c00213b3: 53 push ebx

c00213b4: 83 ec 08 sub esp,0x8

c00213b7: 0f b6 d8 movzx ebx,al

c00213ba: 83 3c 9d 00 a5 03 c0 cmp DWORD PTR [ebx\*4-0x3ffc5b00],0x0

c00213c1: 00

c00213c2: 74 21 je c00213e5 <register\_handler+0x32>

c00213c4: 83 ec 0c sub esp,0xc

c00213c7: 68 cd f5 02 c0 push 0xc002f5cd

c00213cc: 68 83 ed 02 c0 push 0xc002ed83

c00213d1: 68 78 d7 02 c0 push 0xc002d778

c00213d6: 68 a8 00 00 00 push 0xa8

c00213db: 68 86 f5 02 c0 push 0xc002f586

c00213e0: e8 58 65 00 00 call c002793d <debug\_panic>

c00213e5: 83 f9 01 cmp ecx,0x1

c00213e8: 75 21 jne c002140b <register\_handler+0x58>

c00213ea: 8b 04 9d e8 96 03 c0 mov eax,DWORD PTR [ebx\*4-0x3ffc6918]

c00213f1: b9 0f 00 00 00 mov ecx,0xf

c00213f6: e8 25 ff ff ff call c0021320 <make\_gate>

c00213fb: 89 04 dd 00 a9 03 c0 mov DWORD PTR [ebx\*8-0x3ffc5700],eax

c0021402: 89 14 dd 04 a9 03 c0 mov DWORD PTR [ebx\*8-0x3ffc56fc],edx

c0021409: eb 1f jmp c002142a <register\_handler+0x77>

c002140b: 8b 04 9d e8 96 03 c0 mov eax,DWORD PTR [ebx\*4-0x3ffc6918]

c0021412: b9 0e 00 00 00 mov ecx,0xe

c0021417: e8 04 ff ff ff call c0021320 <make\_gate>

c002141c: 89 04 dd 00 a9 03 c0 mov DWORD PTR [ebx\*8-0x3ffc5700],eax

c0021423: 89 14 dd 04 a9 03 c0 mov DWORD PTR [ebx\*8-0x3ffc56fc],edx

c002142a: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002142e: 89 04 9d 00 a5 03 c0 mov DWORD PTR [ebx\*4-0x3ffc5b00],eax

c0021435: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0021439: 89 04 9d 00 a1 03 c0 mov DWORD PTR [ebx\*4-0x3ffc5f00],eax

c0021440: 83 c4 08 add esp,0x8

c0021443: 5b pop ebx

c0021444: c3 ret

c0021445 <intr\_get\_level>:

c0021445: 9c pushf

c0021446: 58 pop eax

c0021447: c1 e8 09 shr eax,0x9

c002144a: 83 e0 01 and eax,0x1

c002144d: c3 ret

c002144e <intr\_enable>:

c002144e: 83 ec 0c sub esp,0xc

c0021451: e8 ef ff ff ff call c0021445 <intr\_get\_level>

c0021456: 80 3d e1 9c 03 c0 00 cmp BYTE PTR ds:0xc0039ce1,0x0

c002145d: 74 1e je c002147d <intr\_enable+0x2f>

c002145f: 83 ec 0c sub esp,0xc

c0021462: 68 c1 f4 02 c0 push 0xc002f4c1

c0021467: 68 83 ed 02 c0 push 0xc002ed83

c002146c: 68 ac d7 02 c0 push 0xc002d7ac

c0021471: 6a 5b push 0x5b

c0021473: 68 86 f5 02 c0 push 0xc002f586

c0021478: e8 c0 64 00 00 call c002793d <debug\_panic>

c002147d: fb sti

c002147e: 83 c4 0c add esp,0xc

c0021481: c3 ret

c0021482 <intr\_disable>:

c0021482: e8 be ff ff ff call c0021445 <intr\_get\_level>

c0021487: fa cli

c0021488: c3 ret

c0021489 <intr\_set\_level>:

c0021489: 83 ec 0c sub esp,0xc

c002148c: 83 7c 24 10 01 cmp DWORD PTR [esp+0x10],0x1

c0021491: 75 07 jne c002149a <intr\_set\_level+0x11>

c0021493: e8 b6 ff ff ff call c002144e <intr\_enable>

c0021498: eb 05 jmp c002149f <intr\_set\_level+0x16>

c002149a: e8 e3 ff ff ff call c0021482 <intr\_disable>

c002149f: 83 c4 0c add esp,0xc

c00214a2: c3 ret

c00214a3 <intr\_init>:

c00214a3: 53 push ebx

c00214a4: 83 ec 18 sub esp,0x18

c00214a7: b8 ff ff ff ff mov eax,0xffffffff

c00214ac: e6 21 out 0x21,al

c00214ae: e6 a1 out 0xa1,al

c00214b0: b8 11 00 00 00 mov eax,0x11

c00214b5: e6 20 out 0x20,al

c00214b7: b8 20 00 00 00 mov eax,0x20

c00214bc: e6 21 out 0x21,al

c00214be: b8 04 00 00 00 mov eax,0x4

c00214c3: e6 21 out 0x21,al

c00214c5: b8 01 00 00 00 mov eax,0x1

c00214ca: e6 21 out 0x21,al

c00214cc: b8 11 00 00 00 mov eax,0x11

c00214d1: e6 a0 out 0xa0,al

c00214d3: b8 28 00 00 00 mov eax,0x28

c00214d8: e6 a1 out 0xa1,al

c00214da: b8 02 00 00 00 mov eax,0x2

c00214df: e6 a1 out 0xa1,al

c00214e1: b8 01 00 00 00 mov eax,0x1

c00214e6: e6 a1 out 0xa1,al

c00214e8: b8 00 00 00 00 mov eax,0x0

c00214ed: e6 21 out 0x21,al

c00214ef: e6 a1 out 0xa1,al

c00214f1: bb 00 00 00 00 mov ebx,0x0

c00214f6: 8b 83 e8 96 03 c0 mov eax,DWORD PTR [ebx-0x3ffc6918]

c00214fc: b9 0e 00 00 00 mov ecx,0xe

c0021501: ba 00 00 00 00 mov edx,0x0

c0021506: e8 15 fe ff ff call c0021320 <make\_gate>

c002150b: 89 84 1b 00 a9 03 c0 mov DWORD PTR [ebx+ebx\*1-0x3ffc5700],

eax

c0021512: 89 94 1b 04 a9 03 c0 mov DWORD PTR [ebx+ebx\*1-0x3ffc56fc],

edx

c0021519: 83 c3 04 add ebx,0x4

c002151c: 81 fb 00 04 00 00 cmp ebx,0x400

c0021522: 75 d2 jne c00214f6 <intr\_init+0x53>

c0021524: b8 00 a9 03 c0 mov eax,0xc003a900

c0021529: ba 00 00 00 00 mov edx,0x0

c002152e: 0f a4 c2 10 shld edx,eax,0x10

c0021532: c1 e0 10 shl eax,0x10

c0021535: 0d ff 07 00 00 or eax,0x7ff

c002153a: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002153e: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0021542: 0f 01 5c 24 08 lidtd [esp+0x8]

c0021547: b8 00 a1 03 c0 mov eax,0xc003a100

c002154c: ba 00 a5 03 c0 mov edx,0xc003a500

c0021551: c7 00 eb f5 02 c0 mov DWORD PTR [eax],0xc002f5eb

c0021557: 83 c0 04 add eax,0x4

c002155a: 39 d0 cmp eax,edx

c002155c: 75 f3 jne c0021551 <intr\_init+0xae>

c002155e: c7 05 00 a1 03 c0 f3 mov DWORD PTR ds:0xc003a100,0xc002f5f

3

c0021565: f5 02 c0

c0021568: c7 05 04 a1 03 c0 04 mov DWORD PTR ds:0xc003a104,0xc002f60

4

c002156f: f6 02 c0

c0021572: c7 05 08 a1 03 c0 18 mov DWORD PTR ds:0xc003a108,0xc002f61

8

c0021579: f6 02 c0

c002157c: c7 05 0c a1 03 c0 26 mov DWORD PTR ds:0xc003a10c,0xc002f62

6

c0021583: f6 02 c0

c0021586: c7 05 10 a1 03 c0 3f mov DWORD PTR ds:0xc003a110,0xc002f63

f

c002158d: f6 02 c0

c0021590: c7 05 14 a1 03 c0 7c mov DWORD PTR ds:0xc003a114,0xc002f77

c

c0021597: f7 02 c0

c002159a: c7 05 18 a1 03 c0 56 mov DWORD PTR ds:0xc003a118,0xc002f65

6

c00215a1: f6 02 c0

c00215a4: c7 05 1c a1 03 c0 a0 mov DWORD PTR ds:0xc003a11c,0xc002f7a

0

c00215ab: f7 02 c0

c00215ae: c7 05 20 a1 03 c0 73 mov DWORD PTR ds:0xc003a120,0xc002f67

3

c00215b5: f6 02 c0

c00215b8: c7 05 24 a1 03 c0 8e mov DWORD PTR ds:0xc003a124,0xc002f68

e

c00215bf: f6 02 c0

c00215c2: c7 05 28 a1 03 c0 aa mov DWORD PTR ds:0xc003a128,0xc002f6a

a

c00215c9: f6 02 c0

c00215cc: c7 05 2c a1 03 c0 c4 mov DWORD PTR ds:0xc003a12c,0xc002f6c

4

c00215d3: f6 02 c0

c00215d6: c7 05 30 a1 03 c0 dc mov DWORD PTR ds:0xc003a130,0xc002f6d

c

c00215dd: f6 02 c0

c00215e0: c7 05 34 a1 03 c0 c4 mov DWORD PTR ds:0xc003a134,0xc002f7c

4

c00215e7: f7 02 c0

c00215ea: c7 05 38 a1 03 c0 f6 mov DWORD PTR ds:0xc003a138,0xc002f6f

6

c00215f1: f6 02 c0

c00215f4: c7 05 40 a1 03 c0 e8 mov DWORD PTR ds:0xc003a140,0xc002f7e

8

c00215fb: f7 02 c0

c00215fe: c7 05 44 a1 03 c0 0f mov DWORD PTR ds:0xc003a144,0xc002f70

f

c0021605: f7 02 c0

c0021608: c7 05 48 a1 03 c0 2d mov DWORD PTR ds:0xc003a148,0xc002f72

d

c002160f: f7 02 c0

c0021612: c7 05 4c a1 03 c0 0c mov DWORD PTR ds:0xc003a14c,0xc002f80

c

c0021619: f8 02 c0

c002161c: 83 c4 18 add esp,0x18

c002161f: 5b pop ebx

c0021620: c3 ret

c0021621 <intr\_register\_ext>:

c0021621: 83 ec 0c sub esp,0xc

c0021624: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0021628: 8d 50 e0 lea edx,[eax-0x20]

c002162b: 80 fa 0f cmp dl,0xf

c002162e: 76 21 jbe c0021651 <intr\_register\_ext+0x30>

c0021630: 83 ec 0c sub esp,0xc

c0021633: 68 30 f8 02 c0 push 0xc002f830

c0021638: 68 83 ed 02 c0 push 0xc002ed83

c002163d: 68 8c d7 02 c0 push 0xc002d78c

c0021642: 68 b8 00 00 00 push 0xb8

c0021647: 68 86 f5 02 c0 push 0xc002f586

c002164c: e8 ec 62 00 00 call c002793d <debug\_panic>

c0021651: 0f b6 c0 movzx eax,al

c0021654: 83 ec 08 sub esp,0x8

c0021657: ff 74 24 20 push DWORD PTR [esp+0x20]

c002165b: ff 74 24 20 push DWORD PTR [esp+0x20]

c002165f: b9 00 00 00 00 mov ecx,0x0

c0021664: ba 00 00 00 00 mov edx,0x0

c0021669: e8 45 fd ff ff call c00213b3 <register\_handler>

c002166e: 83 c4 1c add esp,0x1c

c0021671: c3 ret

c0021672 <intr\_register\_int>:

c0021672: 83 ec 0c sub esp,0xc

c0021675: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0021679: 8d 50 e0 lea edx,[eax-0x20]

c002167c: 80 fa 0f cmp dl,0xf

c002167f: 77 21 ja c00216a2 <intr\_register\_int+0x30>

c0021681: 83 ec 0c sub esp,0xc

c0021684: 68 54 f8 02 c0 push 0xc002f854

c0021689: 68 83 ed 02 c0 push 0xc002ed83

c002168e: 68 64 d7 02 c0 push 0xc002d764

c0021693: 68 cd 00 00 00 push 0xcd

c0021698: 68 86 f5 02 c0 push 0xc002f586

c002169d: e8 9b 62 00 00 call c002793d <debug\_panic>

c00216a2: 0f b6 c0 movzx eax,al

c00216a5: 83 ec 08 sub esp,0x8

c00216a8: ff 74 24 28 push DWORD PTR [esp+0x28]

c00216ac: ff 74 24 28 push DWORD PTR [esp+0x28]

c00216b0: 8b 4c 24 28 mov ecx,DWORD PTR [esp+0x28]

c00216b4: 8b 54 24 24 mov edx,DWORD PTR [esp+0x24]

c00216b8: e8 f6 fc ff ff call c00213b3 <register\_handler>

c00216bd: 83 c4 1c add esp,0x1c

c00216c0: c3 ret

c00216c1 <intr\_context>:

c00216c1: 0f b6 05 e1 9c 03 c0 movzx eax,BYTE PTR ds:0xc0039ce1

c00216c8: c3 ret

c00216c9 <intr\_yield\_on\_return>:

c00216c9: 80 3d e1 9c 03 c0 00 cmp BYTE PTR ds:0xc0039ce1,0x0

c00216d0: 75 21 jne c00216f3 <intr\_yield\_on\_return+0x

2a>

c00216d2: 83 ec 18 sub esp,0x18

c00216d5: 68 c2 f4 02 c0 push 0xc002f4c2

c00216da: 68 83 ed 02 c0 push 0xc002ed83

c00216df: 68 4c d7 02 c0 push 0xc002d74c

c00216e4: 68 e0 00 00 00 push 0xe0

c00216e9: 68 86 f5 02 c0 push 0xc002f586

c00216ee: e8 4a 62 00 00 call c002793d <debug\_panic>

c00216f3: c6 05 e0 9c 03 c0 01 mov BYTE PTR ds:0xc0039ce0,0x1

c00216fa: c3 ret

c00216fb <intr\_handler>:

c00216fb: 56 push esi

c00216fc: 53 push ebx

c00216fd: 83 ec 04 sub esp,0x4

c0021700: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0021704: 8b 46 30 mov eax,DWORD PTR [esi+0x30]

c0021707: 8d 58 e0 lea ebx,[eax-0x20]

c002170a: 83 fb 0f cmp ebx,0xf

c002170d: 77 62 ja c0021771 <intr\_handler+0x76>

c002170f: e8 31 fd ff ff call c0021445 <intr\_get\_level>

c0021714: 85 c0 test eax,eax

c0021716: 74 21 je c0021739 <intr\_handler+0x3e>

c0021718: 83 ec 0c sub esp,0xc

c002171b: 68 c4 f3 02 c0 push 0xc002f3c4

c0021720: 68 83 ed 02 c0 push 0xc002ed83

c0021725: 68 3c d7 02 c0 push 0xc002d73c

c002172a: 68 67 01 00 00 push 0x167

c002172f: 68 86 f5 02 c0 push 0xc002f586

c0021734: e8 04 62 00 00 call c002793d <debug\_panic>

c0021739: 80 3d e1 9c 03 c0 00 cmp BYTE PTR ds:0xc0039ce1,0x0

c0021740: 74 21 je c0021763 <intr\_handler+0x68>

c0021742: 83 ec 0c sub esp,0xc

c0021745: 68 c1 f4 02 c0 push 0xc002f4c1

c002174a: 68 83 ed 02 c0 push 0xc002ed83

c002174f: 68 3c d7 02 c0 push 0xc002d73c

c0021754: 68 68 01 00 00 push 0x168

c0021759: 68 86 f5 02 c0 push 0xc002f586

c002175e: e8 da 61 00 00 call c002793d <debug\_panic>

c0021763: c6 05 e1 9c 03 c0 01 mov BYTE PTR ds:0xc0039ce1,0x1

c002176a: c6 05 e0 9c 03 c0 00 mov BYTE PTR ds:0xc0039ce0,0x0

c0021771: 8b 56 30 mov edx,DWORD PTR [esi+0x30]

c0021774: 8b 04 95 00 a5 03 c0 mov eax,DWORD PTR [edx\*4-0x3ffc5b00]

c002177b: 85 c0 test eax,eax

c002177d: 74 0b je c002178a <intr\_handler+0x8f>

c002177f: 83 ec 0c sub esp,0xc

c0021782: 56 push esi

c0021783: ff d0 call eax

c0021785: 83 c4 10 add esp,0x10

c0021788: eb 37 jmp c00217c1 <intr\_handler+0xc6>

c002178a: 89 d0 mov eax,edx

c002178c: 83 e0 f7 and eax,0xfffffff7

c002178f: 83 f8 27 cmp eax,0x27

c0021792: 74 2d je c00217c1 <intr\_handler+0xc6>

c0021794: 8b 0c 95 00 9d 03 c0 mov ecx,DWORD PTR [edx\*4-0x3ffc6300]

c002179b: 8d 41 01 lea eax,[ecx+0x1]

c002179e: 89 04 95 00 9d 03 c0 mov DWORD PTR [edx\*4-0x3ffc6300],eax

c00217a5: 85 c1 test ecx,eax

c00217a7: 75 18 jne c00217c1 <intr\_handler+0xc6>

c00217a9: 83 ec 04 sub esp,0x4

c00217ac: ff 34 95 00 a1 03 c0 push DWORD PTR [edx\*4-0x3ffc5f00]

c00217b3: 52 push edx

c00217b4: 68 74 f8 02 c0 push 0xc002f874

c00217b9: e8 07 45 00 00 call c0025cc5 <printf>

c00217be: 83 c4 10 add esp,0x10

c00217c1: 83 fb 0f cmp ebx,0xf

c00217c4: 0f 87 a3 00 00 00 ja c002186d <intr\_handler+0x172>

c00217ca: e8 76 fc ff ff call c0021445 <intr\_get\_level>

c00217cf: 85 c0 test eax,eax

c00217d1: 74 21 je c00217f4 <intr\_handler+0xf9>

c00217d3: 83 ec 0c sub esp,0xc

c00217d6: 68 c4 f3 02 c0 push 0xc002f3c4

c00217db: 68 83 ed 02 c0 push 0xc002ed83

c00217e0: 68 3c d7 02 c0 push 0xc002d73c

c00217e5: 68 7e 01 00 00 push 0x17e

c00217ea: 68 86 f5 02 c0 push 0xc002f586

c00217ef: e8 49 61 00 00 call c002793d <debug\_panic>

c00217f4: 80 3d e1 9c 03 c0 00 cmp BYTE PTR ds:0xc0039ce1,0x0

c00217fb: 75 21 jne c002181e <intr\_handler+0x123>

c00217fd: 83 ec 0c sub esp,0xc

c0021800: 68 c2 f4 02 c0 push 0xc002f4c2

c0021805: 68 83 ed 02 c0 push 0xc002ed83

c002180a: 68 3c d7 02 c0 push 0xc002d73c

c002180f: 68 7f 01 00 00 push 0x17f

c0021814: 68 86 f5 02 c0 push 0xc002f586

c0021819: e8 1f 61 00 00 call c002793d <debug\_panic>

c002181e: c6 05 e1 9c 03 c0 00 mov BYTE PTR ds:0xc0039ce1,0x0

c0021825: 8b 56 30 mov edx,DWORD PTR [esi+0x30]

c0021828: 8d 42 e0 lea eax,[edx-0x20]

c002182b: 83 f8 0f cmp eax,0xf

c002182e: 76 21 jbe c0021851 <intr\_handler+0x156>

c0021830: 83 ec 0c sub esp,0xc

c0021833: 68 49 f7 02 c0 push 0xc002f749

c0021838: 68 83 ed 02 c0 push 0xc002ed83

c002183d: 68 24 d7 02 c0 push 0xc002d724

c0021842: 68 0b 01 00 00 push 0x10b

c0021847: 68 86 f5 02 c0 push 0xc002f586

c002184c: e8 ec 60 00 00 call c002793d <debug\_panic>

c0021851: b8 20 00 00 00 mov eax,0x20

c0021856: e6 20 out 0x20,al

c0021858: 83 fa 27 cmp edx,0x27

c002185b: 7e 02 jle c002185f <intr\_handler+0x164>

c002185d: e6 a0 out 0xa0,al

c002185f: 80 3d e0 9c 03 c0 00 cmp BYTE PTR ds:0xc0039ce0,0x0

c0021866: 74 05 je c002186d <intr\_handler+0x172>

c0021868: e8 b9 f8 ff ff call c0021126 <thread\_yield>

c002186d: 83 c4 04 add esp,0x4

c0021870: 5b pop ebx

c0021871: 5e pop esi

c0021872: c3 ret

c0021873 <intr\_dump\_frame>:

c0021873: 56 push esi

c0021874: 53 push ebx

c0021875: 83 ec 04 sub esp,0x4

c0021878: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002187c: 0f 20 d6 mov esi,cr2

c002187f: 8b 43 30 mov eax,DWORD PTR [ebx+0x30]

c0021882: ff 73 3c push DWORD PTR [ebx+0x3c]

c0021885: ff 34 85 00 a1 03 c0 push DWORD PTR [eax\*4-0x3ffc5f00]

c002188c: 50 push eax

c002188d: 68 98 f8 02 c0 push 0xc002f898

c0021892: e8 2e 44 00 00 call c0025cc5 <printf>

c0021897: 83 c4 0c add esp,0xc

c002189a: ff 73 34 push DWORD PTR [ebx+0x34]

c002189d: 56 push esi

c002189e: 68 63 f7 02 c0 push 0xc002f763

c00218a3: e8 1d 44 00 00 call c0025cc5 <printf>

c00218a8: 83 c4 04 add esp,0x4

c00218ab: ff 73 14 push DWORD PTR [ebx+0x14]

c00218ae: ff 73 18 push DWORD PTR [ebx+0x18]

c00218b1: ff 73 10 push DWORD PTR [ebx+0x10]

c00218b4: ff 73 1c push DWORD PTR [ebx+0x1c]

c00218b7: 68 b8 f8 02 c0 push 0xc002f8b8

c00218bc: e8 04 44 00 00 call c0025cc5 <printf>

c00218c1: 83 c4 14 add esp,0x14

c00218c4: ff 73 08 push DWORD PTR [ebx+0x8]

c00218c7: ff 73 48 push DWORD PTR [ebx+0x48]

c00218ca: ff 33 push DWORD PTR [ebx]

c00218cc: ff 73 04 push DWORD PTR [ebx+0x4]

c00218cf: 68 e0 f8 02 c0 push 0xc002f8e0

c00218d4: e8 ec 43 00 00 call c0025cc5 <printf>

c00218d9: 83 c4 14 add esp,0x14

c00218dc: 0f b7 43 4c movzx eax,WORD PTR [ebx+0x4c]

c00218e0: 50 push eax

c00218e1: 0f b7 43 28 movzx eax,WORD PTR [ebx+0x28]

c00218e5: 50 push eax

c00218e6: 0f b7 43 2c movzx eax,WORD PTR [ebx+0x2c]

c00218ea: 50 push eax

c00218eb: 0f b7 43 40 movzx eax,WORD PTR [ebx+0x40]

c00218ef: 50 push eax

c00218f0: 68 08 f9 02 c0 push 0xc002f908

c00218f5: e8 cb 43 00 00 call c0025cc5 <printf>

c00218fa: 83 c4 24 add esp,0x24

c00218fd: 5b pop ebx

c00218fe: 5e pop esi

c00218ff: c3 ret

c0021900 <intr\_name>:

c0021900: 0f b6 44 24 04 movzx eax,BYTE PTR [esp+0x4]

c0021905: 8b 04 85 00 a1 03 c0 mov eax,DWORD PTR [eax\*4-0x3ffc5f00]

c002190c: c3 ret

c002190d <intr\_entry>:

c002190d: 1e push ds

c002190e: 06 push es

c002190f: 0f a0 push fs

c0021911: 0f a8 push gs

c0021913: 60 pusha

c0021914: fc cld

c0021915: b8 10 00 00 00 mov eax,0x10

c002191a: 8e d8 mov ds,eax

c002191c: 8e c0 mov es,eax

c002191e: 8d 6c 24 38 lea ebp,[esp+0x38]

c0021922: 54 push esp

c0021923: e8 d3 fd ff ff call c00216fb <intr\_handler>

c0021928: 83 c4 04 add esp,0x4

c002192b <intr\_exit>:

c002192b: 61 popa

c002192c: 0f a9 pop gs

c002192e: 0f a1 pop fs

c0021930: 07 pop es

c0021931: 1f pop ds

c0021932: 83 c4 0c add esp,0xc

c0021935: cf iret

c0021936 <intr00\_stub>:

c0021936: 55 push ebp

c0021937: 6a 00 push 0x0

c0021939: 6a 00 push 0x0

c002193b: eb d0 jmp c002190d <intr\_entry>

c002193d <intr01\_stub>:

c002193d: 55 push ebp

c002193e: 6a 00 push 0x0

c0021940: 6a 01 push 0x1

c0021942: eb c9 jmp c002190d <intr\_entry>

c0021944 <intr02\_stub>:

c0021944: 55 push ebp

c0021945: 6a 00 push 0x0

c0021947: 6a 02 push 0x2

c0021949: eb c2 jmp c002190d <intr\_entry>

c002194b <intr03\_stub>:

c002194b: 55 push ebp

c002194c: 6a 00 push 0x0

c002194e: 6a 03 push 0x3

c0021950: eb bb jmp c002190d <intr\_entry>

c0021952 <intr04\_stub>:

c0021952: 55 push ebp

c0021953: 6a 00 push 0x0

c0021955: 6a 04 push 0x4

c0021957: eb b4 jmp c002190d <intr\_entry>

c0021959 <intr05\_stub>:

c0021959: 55 push ebp

c002195a: 6a 00 push 0x0

c002195c: 6a 05 push 0x5

c002195e: eb ad jmp c002190d <intr\_entry>

c0021960 <intr06\_stub>:

c0021960: 55 push ebp

c0021961: 6a 00 push 0x0

c0021963: 6a 06 push 0x6

c0021965: eb a6 jmp c002190d <intr\_entry>

c0021967 <intr07\_stub>:

c0021967: 55 push ebp

c0021968: 6a 00 push 0x0

c002196a: 6a 07 push 0x7

c002196c: eb 9f jmp c002190d <intr\_entry>

c002196e <intr08\_stub>:

c002196e: ff 34 24 push DWORD PTR [esp]

c0021971: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021975: 6a 08 push 0x8

c0021977: eb 94 jmp c002190d <intr\_entry>

c0021979 <intr09\_stub>:

c0021979: 55 push ebp

c002197a: 6a 00 push 0x0

c002197c: 6a 09 push 0x9

c002197e: eb 8d jmp c002190d <intr\_entry>

c0021980 <intr0a\_stub>:

c0021980: ff 34 24 push DWORD PTR [esp]

c0021983: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021987: 6a 0a push 0xa

c0021989: eb 82 jmp c002190d <intr\_entry>

c002198b <intr0b\_stub>:

c002198b: ff 34 24 push DWORD PTR [esp]

c002198e: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021992: 6a 0b push 0xb

c0021994: e9 74 ff ff ff jmp c002190d <intr\_entry>

c0021999 <intr0c\_stub>:

c0021999: 55 push ebp

c002199a: 6a 00 push 0x0

c002199c: 6a 0c push 0xc

c002199e: e9 6a ff ff ff jmp c002190d <intr\_entry>

c00219a3 <intr0d\_stub>:

c00219a3: ff 34 24 push DWORD PTR [esp]

c00219a6: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c00219aa: 6a 0d push 0xd

c00219ac: e9 5c ff ff ff jmp c002190d <intr\_entry>

c00219b1 <intr0e\_stub>:

c00219b1: ff 34 24 push DWORD PTR [esp]

c00219b4: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c00219b8: 6a 0e push 0xe

c00219ba: e9 4e ff ff ff jmp c002190d <intr\_entry>

c00219bf <intr0f\_stub>:

c00219bf: 55 push ebp

c00219c0: 6a 00 push 0x0

c00219c2: 6a 0f push 0xf

c00219c4: e9 44 ff ff ff jmp c002190d <intr\_entry>

c00219c9 <intr10\_stub>:

c00219c9: 55 push ebp

c00219ca: 6a 00 push 0x0

c00219cc: 6a 10 push 0x10

c00219ce: e9 3a ff ff ff jmp c002190d <intr\_entry>

c00219d3 <intr11\_stub>:

c00219d3: ff 34 24 push DWORD PTR [esp]

c00219d6: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c00219da: 6a 11 push 0x11

c00219dc: e9 2c ff ff ff jmp c002190d <intr\_entry>

c00219e1 <intr12\_stub>:

c00219e1: 55 push ebp

c00219e2: 6a 00 push 0x0

c00219e4: 6a 12 push 0x12

c00219e6: e9 22 ff ff ff jmp c002190d <intr\_entry>

c00219eb <intr13\_stub>:

c00219eb: 55 push ebp

c00219ec: 6a 00 push 0x0

c00219ee: 6a 13 push 0x13

c00219f0: e9 18 ff ff ff jmp c002190d <intr\_entry>

c00219f5 <intr14\_stub>:

c00219f5: 55 push ebp

c00219f6: 6a 00 push 0x0

c00219f8: 6a 14 push 0x14

c00219fa: e9 0e ff ff ff jmp c002190d <intr\_entry>

c00219ff <intr15\_stub>:

c00219ff: 55 push ebp

c0021a00: 6a 00 push 0x0

c0021a02: 6a 15 push 0x15

c0021a04: e9 04 ff ff ff jmp c002190d <intr\_entry>

c0021a09 <intr16\_stub>:

c0021a09: 55 push ebp

c0021a0a: 6a 00 push 0x0

c0021a0c: 6a 16 push 0x16

c0021a0e: e9 fa fe ff ff jmp c002190d <intr\_entry>

c0021a13 <intr17\_stub>:

c0021a13: 55 push ebp

c0021a14: 6a 00 push 0x0

c0021a16: 6a 17 push 0x17

c0021a18: e9 f0 fe ff ff jmp c002190d <intr\_entry>

c0021a1d <intr18\_stub>:

c0021a1d: ff 34 24 push DWORD PTR [esp]

c0021a20: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021a24: 6a 18 push 0x18

c0021a26: e9 e2 fe ff ff jmp c002190d <intr\_entry>

c0021a2b <intr19\_stub>:

c0021a2b: 55 push ebp

c0021a2c: 6a 00 push 0x0

c0021a2e: 6a 19 push 0x19

c0021a30: e9 d8 fe ff ff jmp c002190d <intr\_entry>

c0021a35 <intr1a\_stub>:

c0021a35: ff 34 24 push DWORD PTR [esp]

c0021a38: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021a3c: 6a 1a push 0x1a

c0021a3e: e9 ca fe ff ff jmp c002190d <intr\_entry>

c0021a43 <intr1b\_stub>:

c0021a43: ff 34 24 push DWORD PTR [esp]

c0021a46: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021a4a: 6a 1b push 0x1b

c0021a4c: e9 bc fe ff ff jmp c002190d <intr\_entry>

c0021a51 <intr1c\_stub>:

c0021a51: 55 push ebp

c0021a52: 6a 00 push 0x0

c0021a54: 6a 1c push 0x1c

c0021a56: e9 b2 fe ff ff jmp c002190d <intr\_entry>

c0021a5b <intr1d\_stub>:

c0021a5b: ff 34 24 push DWORD PTR [esp]

c0021a5e: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021a62: 6a 1d push 0x1d

c0021a64: e9 a4 fe ff ff jmp c002190d <intr\_entry>

c0021a69 <intr1e\_stub>:

c0021a69: ff 34 24 push DWORD PTR [esp]

c0021a6c: 89 6c 24 04 mov DWORD PTR [esp+0x4],ebp

c0021a70: 6a 1e push 0x1e

c0021a72: e9 96 fe ff ff jmp c002190d <intr\_entry>

c0021a77 <intr1f\_stub>:

c0021a77: 55 push ebp

c0021a78: 6a 00 push 0x0

c0021a7a: 6a 1f push 0x1f

c0021a7c: e9 8c fe ff ff jmp c002190d <intr\_entry>

c0021a81 <intr20\_stub>:

c0021a81: 55 push ebp

c0021a82: 6a 00 push 0x0

c0021a84: 6a 20 push 0x20

c0021a86: e9 82 fe ff ff jmp c002190d <intr\_entry>

c0021a8b <intr21\_stub>:

c0021a8b: 55 push ebp

c0021a8c: 6a 00 push 0x0

c0021a8e: 6a 21 push 0x21

c0021a90: e9 78 fe ff ff jmp c002190d <intr\_entry>

c0021a95 <intr22\_stub>:

c0021a95: 55 push ebp

c0021a96: 6a 00 push 0x0

c0021a98: 6a 22 push 0x22

c0021a9a: e9 6e fe ff ff jmp c002190d <intr\_entry>

c0021a9f <intr23\_stub>:

c0021a9f: 55 push ebp

c0021aa0: 6a 00 push 0x0

c0021aa2: 6a 23 push 0x23

c0021aa4: e9 64 fe ff ff jmp c002190d <intr\_entry>

c0021aa9 <intr24\_stub>:

c0021aa9: 55 push ebp

c0021aaa: 6a 00 push 0x0

c0021aac: 6a 24 push 0x24

c0021aae: e9 5a fe ff ff jmp c002190d <intr\_entry>

c0021ab3 <intr25\_stub>:

c0021ab3: 55 push ebp

c0021ab4: 6a 00 push 0x0

c0021ab6: 6a 25 push 0x25

c0021ab8: e9 50 fe ff ff jmp c002190d <intr\_entry>

c0021abd <intr26\_stub>:

c0021abd: 55 push ebp

c0021abe: 6a 00 push 0x0

c0021ac0: 6a 26 push 0x26

c0021ac2: e9 46 fe ff ff jmp c002190d <intr\_entry>

c0021ac7 <intr27\_stub>:

c0021ac7: 55 push ebp

c0021ac8: 6a 00 push 0x0

c0021aca: 6a 27 push 0x27

c0021acc: e9 3c fe ff ff jmp c002190d <intr\_entry>

c0021ad1 <intr28\_stub>:

c0021ad1: 55 push ebp

c0021ad2: 6a 00 push 0x0

c0021ad4: 6a 28 push 0x28

c0021ad6: e9 32 fe ff ff jmp c002190d <intr\_entry>

c0021adb <intr29\_stub>:

c0021adb: 55 push ebp

c0021adc: 6a 00 push 0x0

c0021ade: 6a 29 push 0x29

c0021ae0: e9 28 fe ff ff jmp c002190d <intr\_entry>

c0021ae5 <intr2a\_stub>:

c0021ae5: 55 push ebp

c0021ae6: 6a 00 push 0x0

c0021ae8: 6a 2a push 0x2a

c0021aea: e9 1e fe ff ff jmp c002190d <intr\_entry>

c0021aef <intr2b\_stub>:

c0021aef: 55 push ebp

c0021af0: 6a 00 push 0x0

c0021af2: 6a 2b push 0x2b

c0021af4: e9 14 fe ff ff jmp c002190d <intr\_entry>

c0021af9 <intr2c\_stub>:

c0021af9: 55 push ebp

c0021afa: 6a 00 push 0x0

c0021afc: 6a 2c push 0x2c

c0021afe: e9 0a fe ff ff jmp c002190d <intr\_entry>

c0021b03 <intr2d\_stub>:

c0021b03: 55 push ebp

c0021b04: 6a 00 push 0x0

c0021b06: 6a 2d push 0x2d

c0021b08: e9 00 fe ff ff jmp c002190d <intr\_entry>

c0021b0d <intr2e\_stub>:

c0021b0d: 55 push ebp

c0021b0e: 6a 00 push 0x0

c0021b10: 6a 2e push 0x2e

c0021b12: e9 f6 fd ff ff jmp c002190d <intr\_entry>

c0021b17 <intr2f\_stub>:

c0021b17: 55 push ebp

c0021b18: 6a 00 push 0x0

c0021b1a: 6a 2f push 0x2f

c0021b1c: e9 ec fd ff ff jmp c002190d <intr\_entry>

c0021b21 <intr30\_stub>:

c0021b21: 55 push ebp

c0021b22: 6a 00 push 0x0

c0021b24: 6a 30 push 0x30

c0021b26: e9 e2 fd ff ff jmp c002190d <intr\_entry>

c0021b2b <intr31\_stub>:

c0021b2b: 55 push ebp

c0021b2c: 6a 00 push 0x0

c0021b2e: 6a 31 push 0x31

c0021b30: e9 d8 fd ff ff jmp c002190d <intr\_entry>

c0021b35 <intr32\_stub>:

c0021b35: 55 push ebp

c0021b36: 6a 00 push 0x0

c0021b38: 6a 32 push 0x32

c0021b3a: e9 ce fd ff ff jmp c002190d <intr\_entry>

c0021b3f <intr33\_stub>:

c0021b3f: 55 push ebp

c0021b40: 6a 00 push 0x0

c0021b42: 6a 33 push 0x33

c0021b44: e9 c4 fd ff ff jmp c002190d <intr\_entry>

c0021b49 <intr34\_stub>:

c0021b49: 55 push ebp

c0021b4a: 6a 00 push 0x0

c0021b4c: 6a 34 push 0x34

c0021b4e: e9 ba fd ff ff jmp c002190d <intr\_entry>

c0021b53 <intr35\_stub>:

c0021b53: 55 push ebp

c0021b54: 6a 00 push 0x0

c0021b56: 6a 35 push 0x35

c0021b58: e9 b0 fd ff ff jmp c002190d <intr\_entry>

c0021b5d <intr36\_stub>:

c0021b5d: 55 push ebp

c0021b5e: 6a 00 push 0x0

c0021b60: 6a 36 push 0x36

c0021b62: e9 a6 fd ff ff jmp c002190d <intr\_entry>

c0021b67 <intr37\_stub>:

c0021b67: 55 push ebp

c0021b68: 6a 00 push 0x0

c0021b6a: 6a 37 push 0x37

c0021b6c: e9 9c fd ff ff jmp c002190d <intr\_entry>

c0021b71 <intr38\_stub>:

c0021b71: 55 push ebp

c0021b72: 6a 00 push 0x0

c0021b74: 6a 38 push 0x38

c0021b76: e9 92 fd ff ff jmp c002190d <intr\_entry>

c0021b7b <intr39\_stub>:

c0021b7b: 55 push ebp

c0021b7c: 6a 00 push 0x0

c0021b7e: 6a 39 push 0x39

c0021b80: e9 88 fd ff ff jmp c002190d <intr\_entry>

c0021b85 <intr3a\_stub>:

c0021b85: 55 push ebp

c0021b86: 6a 00 push 0x0

c0021b88: 6a 3a push 0x3a

c0021b8a: e9 7e fd ff ff jmp c002190d <intr\_entry>

c0021b8f <intr3b\_stub>:

c0021b8f: 55 push ebp

c0021b90: 6a 00 push 0x0

c0021b92: 6a 3b push 0x3b

c0021b94: e9 74 fd ff ff jmp c002190d <intr\_entry>

c0021b99 <intr3c\_stub>:

c0021b99: 55 push ebp

c0021b9a: 6a 00 push 0x0

c0021b9c: 6a 3c push 0x3c

c0021b9e: e9 6a fd ff ff jmp c002190d <intr\_entry>

c0021ba3 <intr3d\_stub>:

c0021ba3: 55 push ebp

c0021ba4: 6a 00 push 0x0

c0021ba6: 6a 3d push 0x3d

c0021ba8: e9 60 fd ff ff jmp c002190d <intr\_entry>

c0021bad <intr3e\_stub>:

c0021bad: 55 push ebp

c0021bae: 6a 00 push 0x0

c0021bb0: 6a 3e push 0x3e

c0021bb2: e9 56 fd ff ff jmp c002190d <intr\_entry>

c0021bb7 <intr3f\_stub>:

c0021bb7: 55 push ebp

c0021bb8: 6a 00 push 0x0

c0021bba: 6a 3f push 0x3f

c0021bbc: e9 4c fd ff ff jmp c002190d <intr\_entry>

c0021bc1 <intr40\_stub>:

c0021bc1: 55 push ebp

c0021bc2: 6a 00 push 0x0

c0021bc4: 6a 40 push 0x40

c0021bc6: e9 42 fd ff ff jmp c002190d <intr\_entry>

c0021bcb <intr41\_stub>:

c0021bcb: 55 push ebp

c0021bcc: 6a 00 push 0x0

c0021bce: 6a 41 push 0x41

c0021bd0: e9 38 fd ff ff jmp c002190d <intr\_entry>

c0021bd5 <intr42\_stub>:

c0021bd5: 55 push ebp

c0021bd6: 6a 00 push 0x0

c0021bd8: 6a 42 push 0x42

c0021bda: e9 2e fd ff ff jmp c002190d <intr\_entry>

c0021bdf <intr43\_stub>:

c0021bdf: 55 push ebp

c0021be0: 6a 00 push 0x0

c0021be2: 6a 43 push 0x43

c0021be4: e9 24 fd ff ff jmp c002190d <intr\_entry>

c0021be9 <intr44\_stub>:

c0021be9: 55 push ebp

c0021bea: 6a 00 push 0x0

c0021bec: 6a 44 push 0x44

c0021bee: e9 1a fd ff ff jmp c002190d <intr\_entry>

c0021bf3 <intr45\_stub>:

c0021bf3: 55 push ebp

c0021bf4: 6a 00 push 0x0

c0021bf6: 6a 45 push 0x45

c0021bf8: e9 10 fd ff ff jmp c002190d <intr\_entry>

c0021bfd <intr46\_stub>:

c0021bfd: 55 push ebp

c0021bfe: 6a 00 push 0x0

c0021c00: 6a 46 push 0x46

c0021c02: e9 06 fd ff ff jmp c002190d <intr\_entry>

c0021c07 <intr47\_stub>:

c0021c07: 55 push ebp

c0021c08: 6a 00 push 0x0

c0021c0a: 6a 47 push 0x47

c0021c0c: e9 fc fc ff ff jmp c002190d <intr\_entry>

c0021c11 <intr48\_stub>:

c0021c11: 55 push ebp

c0021c12: 6a 00 push 0x0

c0021c14: 6a 48 push 0x48

c0021c16: e9 f2 fc ff ff jmp c002190d <intr\_entry>

c0021c1b <intr49\_stub>:

c0021c1b: 55 push ebp

c0021c1c: 6a 00 push 0x0

c0021c1e: 6a 49 push 0x49

c0021c20: e9 e8 fc ff ff jmp c002190d <intr\_entry>

c0021c25 <intr4a\_stub>:

c0021c25: 55 push ebp

c0021c26: 6a 00 push 0x0

c0021c28: 6a 4a push 0x4a

c0021c2a: e9 de fc ff ff jmp c002190d <intr\_entry>

c0021c2f <intr4b\_stub>:

c0021c2f: 55 push ebp

c0021c30: 6a 00 push 0x0

c0021c32: 6a 4b push 0x4b

c0021c34: e9 d4 fc ff ff jmp c002190d <intr\_entry>

c0021c39 <intr4c\_stub>:

c0021c39: 55 push ebp

c0021c3a: 6a 00 push 0x0

c0021c3c: 6a 4c push 0x4c

c0021c3e: e9 ca fc ff ff jmp c002190d <intr\_entry>

c0021c43 <intr4d\_stub>:

c0021c43: 55 push ebp

c0021c44: 6a 00 push 0x0

c0021c46: 6a 4d push 0x4d

c0021c48: e9 c0 fc ff ff jmp c002190d <intr\_entry>

c0021c4d <intr4e\_stub>:

c0021c4d: 55 push ebp

c0021c4e: 6a 00 push 0x0

c0021c50: 6a 4e push 0x4e

c0021c52: e9 b6 fc ff ff jmp c002190d <intr\_entry>

c0021c57 <intr4f\_stub>:

c0021c57: 55 push ebp

c0021c58: 6a 00 push 0x0

c0021c5a: 6a 4f push 0x4f

c0021c5c: e9 ac fc ff ff jmp c002190d <intr\_entry>

c0021c61 <intr50\_stub>:

c0021c61: 55 push ebp

c0021c62: 6a 00 push 0x0

c0021c64: 6a 50 push 0x50

c0021c66: e9 a2 fc ff ff jmp c002190d <intr\_entry>

c0021c6b <intr51\_stub>:

c0021c6b: 55 push ebp

c0021c6c: 6a 00 push 0x0

c0021c6e: 6a 51 push 0x51

c0021c70: e9 98 fc ff ff jmp c002190d <intr\_entry>

c0021c75 <intr52\_stub>:

c0021c75: 55 push ebp

c0021c76: 6a 00 push 0x0

c0021c78: 6a 52 push 0x52

c0021c7a: e9 8e fc ff ff jmp c002190d <intr\_entry>

c0021c7f <intr53\_stub>:

c0021c7f: 55 push ebp

c0021c80: 6a 00 push 0x0

c0021c82: 6a 53 push 0x53

c0021c84: e9 84 fc ff ff jmp c002190d <intr\_entry>

c0021c89 <intr54\_stub>:

c0021c89: 55 push ebp

c0021c8a: 6a 00 push 0x0

c0021c8c: 6a 54 push 0x54

c0021c8e: e9 7a fc ff ff jmp c002190d <intr\_entry>

c0021c93 <intr55\_stub>:

c0021c93: 55 push ebp

c0021c94: 6a 00 push 0x0

c0021c96: 6a 55 push 0x55

c0021c98: e9 70 fc ff ff jmp c002190d <intr\_entry>

c0021c9d <intr56\_stub>:

c0021c9d: 55 push ebp

c0021c9e: 6a 00 push 0x0

c0021ca0: 6a 56 push 0x56

c0021ca2: e9 66 fc ff ff jmp c002190d <intr\_entry>

c0021ca7 <intr57\_stub>:

c0021ca7: 55 push ebp

c0021ca8: 6a 00 push 0x0

c0021caa: 6a 57 push 0x57

c0021cac: e9 5c fc ff ff jmp c002190d <intr\_entry>

c0021cb1 <intr58\_stub>:

c0021cb1: 55 push ebp

c0021cb2: 6a 00 push 0x0

c0021cb4: 6a 58 push 0x58

c0021cb6: e9 52 fc ff ff jmp c002190d <intr\_entry>

c0021cbb <intr59\_stub>:

c0021cbb: 55 push ebp

c0021cbc: 6a 00 push 0x0

c0021cbe: 6a 59 push 0x59

c0021cc0: e9 48 fc ff ff jmp c002190d <intr\_entry>

c0021cc5 <intr5a\_stub>:

c0021cc5: 55 push ebp

c0021cc6: 6a 00 push 0x0

c0021cc8: 6a 5a push 0x5a

c0021cca: e9 3e fc ff ff jmp c002190d <intr\_entry>

c0021ccf <intr5b\_stub>:

c0021ccf: 55 push ebp

c0021cd0: 6a 00 push 0x0

c0021cd2: 6a 5b push 0x5b

c0021cd4: e9 34 fc ff ff jmp c002190d <intr\_entry>

c0021cd9 <intr5c\_stub>:

c0021cd9: 55 push ebp

c0021cda: 6a 00 push 0x0

c0021cdc: 6a 5c push 0x5c

c0021cde: e9 2a fc ff ff jmp c002190d <intr\_entry>

c0021ce3 <intr5d\_stub>:

c0021ce3: 55 push ebp

c0021ce4: 6a 00 push 0x0

c0021ce6: 6a 5d push 0x5d

c0021ce8: e9 20 fc ff ff jmp c002190d <intr\_entry>

c0021ced <intr5e\_stub>:

c0021ced: 55 push ebp

c0021cee: 6a 00 push 0x0

c0021cf0: 6a 5e push 0x5e

c0021cf2: e9 16 fc ff ff jmp c002190d <intr\_entry>

c0021cf7 <intr5f\_stub>:

c0021cf7: 55 push ebp

c0021cf8: 6a 00 push 0x0

c0021cfa: 6a 5f push 0x5f

c0021cfc: e9 0c fc ff ff jmp c002190d <intr\_entry>

c0021d01 <intr60\_stub>:

c0021d01: 55 push ebp

c0021d02: 6a 00 push 0x0

c0021d04: 6a 60 push 0x60

c0021d06: e9 02 fc ff ff jmp c002190d <intr\_entry>

c0021d0b <intr61\_stub>:

c0021d0b: 55 push ebp

c0021d0c: 6a 00 push 0x0

c0021d0e: 6a 61 push 0x61

c0021d10: e9 f8 fb ff ff jmp c002190d <intr\_entry>

c0021d15 <intr62\_stub>:

c0021d15: 55 push ebp

c0021d16: 6a 00 push 0x0

c0021d18: 6a 62 push 0x62

c0021d1a: e9 ee fb ff ff jmp c002190d <intr\_entry>

c0021d1f <intr63\_stub>:

c0021d1f: 55 push ebp

c0021d20: 6a 00 push 0x0

c0021d22: 6a 63 push 0x63

c0021d24: e9 e4 fb ff ff jmp c002190d <intr\_entry>

c0021d29 <intr64\_stub>:

c0021d29: 55 push ebp

c0021d2a: 6a 00 push 0x0

c0021d2c: 6a 64 push 0x64

c0021d2e: e9 da fb ff ff jmp c002190d <intr\_entry>

c0021d33 <intr65\_stub>:

c0021d33: 55 push ebp

c0021d34: 6a 00 push 0x0

c0021d36: 6a 65 push 0x65

c0021d38: e9 d0 fb ff ff jmp c002190d <intr\_entry>

c0021d3d <intr66\_stub>:

c0021d3d: 55 push ebp

c0021d3e: 6a 00 push 0x0

c0021d40: 6a 66 push 0x66

c0021d42: e9 c6 fb ff ff jmp c002190d <intr\_entry>

c0021d47 <intr67\_stub>:

c0021d47: 55 push ebp

c0021d48: 6a 00 push 0x0

c0021d4a: 6a 67 push 0x67

c0021d4c: e9 bc fb ff ff jmp c002190d <intr\_entry>

c0021d51 <intr68\_stub>:

c0021d51: 55 push ebp

c0021d52: 6a 00 push 0x0

c0021d54: 6a 68 push 0x68

c0021d56: e9 b2 fb ff ff jmp c002190d <intr\_entry>

c0021d5b <intr69\_stub>:

c0021d5b: 55 push ebp

c0021d5c: 6a 00 push 0x0

c0021d5e: 6a 69 push 0x69

c0021d60: e9 a8 fb ff ff jmp c002190d <intr\_entry>

c0021d65 <intr6a\_stub>:

c0021d65: 55 push ebp

c0021d66: 6a 00 push 0x0

c0021d68: 6a 6a push 0x6a

c0021d6a: e9 9e fb ff ff jmp c002190d <intr\_entry>

c0021d6f <intr6b\_stub>:

c0021d6f: 55 push ebp

c0021d70: 6a 00 push 0x0

c0021d72: 6a 6b push 0x6b

c0021d74: e9 94 fb ff ff jmp c002190d <intr\_entry>

c0021d79 <intr6c\_stub>:

c0021d79: 55 push ebp

c0021d7a: 6a 00 push 0x0

c0021d7c: 6a 6c push 0x6c

c0021d7e: e9 8a fb ff ff jmp c002190d <intr\_entry>

c0021d83 <intr6d\_stub>:

c0021d83: 55 push ebp

c0021d84: 6a 00 push 0x0

c0021d86: 6a 6d push 0x6d

c0021d88: e9 80 fb ff ff jmp c002190d <intr\_entry>

c0021d8d <intr6e\_stub>:

c0021d8d: 55 push ebp

c0021d8e: 6a 00 push 0x0

c0021d90: 6a 6e push 0x6e

c0021d92: e9 76 fb ff ff jmp c002190d <intr\_entry>

c0021d97 <intr6f\_stub>:

c0021d97: 55 push ebp

c0021d98: 6a 00 push 0x0

c0021d9a: 6a 6f push 0x6f

c0021d9c: e9 6c fb ff ff jmp c002190d <intr\_entry>

c0021da1 <intr70\_stub>:

c0021da1: 55 push ebp

c0021da2: 6a 00 push 0x0

c0021da4: 6a 70 push 0x70

c0021da6: e9 62 fb ff ff jmp c002190d <intr\_entry>

c0021dab <intr71\_stub>:

c0021dab: 55 push ebp

c0021dac: 6a 00 push 0x0

c0021dae: 6a 71 push 0x71

c0021db0: e9 58 fb ff ff jmp c002190d <intr\_entry>

c0021db5 <intr72\_stub>:

c0021db5: 55 push ebp

c0021db6: 6a 00 push 0x0

c0021db8: 6a 72 push 0x72

c0021dba: e9 4e fb ff ff jmp c002190d <intr\_entry>

c0021dbf <intr73\_stub>:

c0021dbf: 55 push ebp

c0021dc0: 6a 00 push 0x0

c0021dc2: 6a 73 push 0x73

c0021dc4: e9 44 fb ff ff jmp c002190d <intr\_entry>

c0021dc9 <intr74\_stub>:

c0021dc9: 55 push ebp

c0021dca: 6a 00 push 0x0

c0021dcc: 6a 74 push 0x74

c0021dce: e9 3a fb ff ff jmp c002190d <intr\_entry>

c0021dd3 <intr75\_stub>:

c0021dd3: 55 push ebp

c0021dd4: 6a 00 push 0x0

c0021dd6: 6a 75 push 0x75

c0021dd8: e9 30 fb ff ff jmp c002190d <intr\_entry>

c0021ddd <intr76\_stub>:

c0021ddd: 55 push ebp

c0021dde: 6a 00 push 0x0

c0021de0: 6a 76 push 0x76

c0021de2: e9 26 fb ff ff jmp c002190d <intr\_entry>

c0021de7 <intr77\_stub>:

c0021de7: 55 push ebp

c0021de8: 6a 00 push 0x0

c0021dea: 6a 77 push 0x77

c0021dec: e9 1c fb ff ff jmp c002190d <intr\_entry>

c0021df1 <intr78\_stub>:

c0021df1: 55 push ebp

c0021df2: 6a 00 push 0x0

c0021df4: 6a 78 push 0x78

c0021df6: e9 12 fb ff ff jmp c002190d <intr\_entry>

c0021dfb <intr79\_stub>:

c0021dfb: 55 push ebp

c0021dfc: 6a 00 push 0x0

c0021dfe: 6a 79 push 0x79

c0021e00: e9 08 fb ff ff jmp c002190d <intr\_entry>

c0021e05 <intr7a\_stub>:

c0021e05: 55 push ebp

c0021e06: 6a 00 push 0x0

c0021e08: 6a 7a push 0x7a

c0021e0a: e9 fe fa ff ff jmp c002190d <intr\_entry>

c0021e0f <intr7b\_stub>:

c0021e0f: 55 push ebp

c0021e10: 6a 00 push 0x0

c0021e12: 6a 7b push 0x7b

c0021e14: e9 f4 fa ff ff jmp c002190d <intr\_entry>

c0021e19 <intr7c\_stub>:

c0021e19: 55 push ebp

c0021e1a: 6a 00 push 0x0

c0021e1c: 6a 7c push 0x7c

c0021e1e: e9 ea fa ff ff jmp c002190d <intr\_entry>

c0021e23 <intr7d\_stub>:

c0021e23: 55 push ebp

c0021e24: 6a 00 push 0x0

c0021e26: 6a 7d push 0x7d

c0021e28: e9 e0 fa ff ff jmp c002190d <intr\_entry>

c0021e2d <intr7e\_stub>:

c0021e2d: 55 push ebp

c0021e2e: 6a 00 push 0x0

c0021e30: 6a 7e push 0x7e

c0021e32: e9 d6 fa ff ff jmp c002190d <intr\_entry>

c0021e37 <intr7f\_stub>:

c0021e37: 55 push ebp

c0021e38: 6a 00 push 0x0

c0021e3a: 6a 7f push 0x7f

c0021e3c: e9 cc fa ff ff jmp c002190d <intr\_entry>

c0021e41 <intr80\_stub>:

c0021e41: 55 push ebp

c0021e42: 6a 00 push 0x0

c0021e44: 68 80 00 00 00 push 0x80

c0021e49: e9 bf fa ff ff jmp c002190d <intr\_entry>

c0021e4e <intr81\_stub>:

c0021e4e: 55 push ebp

c0021e4f: 6a 00 push 0x0

c0021e51: 68 81 00 00 00 push 0x81

c0021e56: e9 b2 fa ff ff jmp c002190d <intr\_entry>

c0021e5b <intr82\_stub>:

c0021e5b: 55 push ebp

c0021e5c: 6a 00 push 0x0

c0021e5e: 68 82 00 00 00 push 0x82

c0021e63: e9 a5 fa ff ff jmp c002190d <intr\_entry>

c0021e68 <intr83\_stub>:

c0021e68: 55 push ebp

c0021e69: 6a 00 push 0x0

c0021e6b: 68 83 00 00 00 push 0x83

c0021e70: e9 98 fa ff ff jmp c002190d <intr\_entry>

c0021e75 <intr84\_stub>:

c0021e75: 55 push ebp

c0021e76: 6a 00 push 0x0

c0021e78: 68 84 00 00 00 push 0x84

c0021e7d: e9 8b fa ff ff jmp c002190d <intr\_entry>

c0021e82 <intr85\_stub>:

c0021e82: 55 push ebp

c0021e83: 6a 00 push 0x0

c0021e85: 68 85 00 00 00 push 0x85

c0021e8a: e9 7e fa ff ff jmp c002190d <intr\_entry>

c0021e8f <intr86\_stub>:

c0021e8f: 55 push ebp

c0021e90: 6a 00 push 0x0

c0021e92: 68 86 00 00 00 push 0x86

c0021e97: e9 71 fa ff ff jmp c002190d <intr\_entry>

c0021e9c <intr87\_stub>:

c0021e9c: 55 push ebp

c0021e9d: 6a 00 push 0x0

c0021e9f: 68 87 00 00 00 push 0x87

c0021ea4: e9 64 fa ff ff jmp c002190d <intr\_entry>

c0021ea9 <intr88\_stub>:

c0021ea9: 55 push ebp

c0021eaa: 6a 00 push 0x0

c0021eac: 68 88 00 00 00 push 0x88

c0021eb1: e9 57 fa ff ff jmp c002190d <intr\_entry>

c0021eb6 <intr89\_stub>:

c0021eb6: 55 push ebp

c0021eb7: 6a 00 push 0x0

c0021eb9: 68 89 00 00 00 push 0x89

c0021ebe: e9 4a fa ff ff jmp c002190d <intr\_entry>

c0021ec3 <intr8a\_stub>:

c0021ec3: 55 push ebp

c0021ec4: 6a 00 push 0x0

c0021ec6: 68 8a 00 00 00 push 0x8a

c0021ecb: e9 3d fa ff ff jmp c002190d <intr\_entry>

c0021ed0 <intr8b\_stub>:

c0021ed0: 55 push ebp

c0021ed1: 6a 00 push 0x0

c0021ed3: 68 8b 00 00 00 push 0x8b

c0021ed8: e9 30 fa ff ff jmp c002190d <intr\_entry>

c0021edd <intr8c\_stub>:

c0021edd: 55 push ebp

c0021ede: 6a 00 push 0x0

c0021ee0: 68 8c 00 00 00 push 0x8c

c0021ee5: e9 23 fa ff ff jmp c002190d <intr\_entry>

c0021eea <intr8d\_stub>:

c0021eea: 55 push ebp

c0021eeb: 6a 00 push 0x0

c0021eed: 68 8d 00 00 00 push 0x8d

c0021ef2: e9 16 fa ff ff jmp c002190d <intr\_entry>

c0021ef7 <intr8e\_stub>:

c0021ef7: 55 push ebp

c0021ef8: 6a 00 push 0x0

c0021efa: 68 8e 00 00 00 push 0x8e

c0021eff: e9 09 fa ff ff jmp c002190d <intr\_entry>

c0021f04 <intr8f\_stub>:

c0021f04: 55 push ebp

c0021f05: 6a 00 push 0x0

c0021f07: 68 8f 00 00 00 push 0x8f

c0021f0c: e9 fc f9 ff ff jmp c002190d <intr\_entry>

c0021f11 <intr90\_stub>:

c0021f11: 55 push ebp

c0021f12: 6a 00 push 0x0

c0021f14: 68 90 00 00 00 push 0x90

c0021f19: e9 ef f9 ff ff jmp c002190d <intr\_entry>

c0021f1e <intr91\_stub>:

c0021f1e: 55 push ebp

c0021f1f: 6a 00 push 0x0

c0021f21: 68 91 00 00 00 push 0x91

c0021f26: e9 e2 f9 ff ff jmp c002190d <intr\_entry>

c0021f2b <intr92\_stub>:

c0021f2b: 55 push ebp

c0021f2c: 6a 00 push 0x0

c0021f2e: 68 92 00 00 00 push 0x92

c0021f33: e9 d5 f9 ff ff jmp c002190d <intr\_entry>

c0021f38 <intr93\_stub>:

c0021f38: 55 push ebp

c0021f39: 6a 00 push 0x0

c0021f3b: 68 93 00 00 00 push 0x93

c0021f40: e9 c8 f9 ff ff jmp c002190d <intr\_entry>

c0021f45 <intr94\_stub>:

c0021f45: 55 push ebp

c0021f46: 6a 00 push 0x0

c0021f48: 68 94 00 00 00 push 0x94

c0021f4d: e9 bb f9 ff ff jmp c002190d <intr\_entry>

c0021f52 <intr95\_stub>:

c0021f52: 55 push ebp

c0021f53: 6a 00 push 0x0

c0021f55: 68 95 00 00 00 push 0x95

c0021f5a: e9 ae f9 ff ff jmp c002190d <intr\_entry>

c0021f5f <intr96\_stub>:

c0021f5f: 55 push ebp

c0021f60: 6a 00 push 0x0

c0021f62: 68 96 00 00 00 push 0x96

c0021f67: e9 a1 f9 ff ff jmp c002190d <intr\_entry>

c0021f6c <intr97\_stub>:

c0021f6c: 55 push ebp

c0021f6d: 6a 00 push 0x0

c0021f6f: 68 97 00 00 00 push 0x97

c0021f74: e9 94 f9 ff ff jmp c002190d <intr\_entry>

c0021f79 <intr98\_stub>:

c0021f79: 55 push ebp

c0021f7a: 6a 00 push 0x0

c0021f7c: 68 98 00 00 00 push 0x98

c0021f81: e9 87 f9 ff ff jmp c002190d <intr\_entry>

c0021f86 <intr99\_stub>:

c0021f86: 55 push ebp

c0021f87: 6a 00 push 0x0

c0021f89: 68 99 00 00 00 push 0x99

c0021f8e: e9 7a f9 ff ff jmp c002190d <intr\_entry>

c0021f93 <intr9a\_stub>:

c0021f93: 55 push ebp

c0021f94: 6a 00 push 0x0

c0021f96: 68 9a 00 00 00 push 0x9a

c0021f9b: e9 6d f9 ff ff jmp c002190d <intr\_entry>

c0021fa0 <intr9b\_stub>:

c0021fa0: 55 push ebp

c0021fa1: 6a 00 push 0x0

c0021fa3: 68 9b 00 00 00 push 0x9b

c0021fa8: e9 60 f9 ff ff jmp c002190d <intr\_entry>

c0021fad <intr9c\_stub>:

c0021fad: 55 push ebp

c0021fae: 6a 00 push 0x0

c0021fb0: 68 9c 00 00 00 push 0x9c

c0021fb5: e9 53 f9 ff ff jmp c002190d <intr\_entry>

c0021fba <intr9d\_stub>:

c0021fba: 55 push ebp

c0021fbb: 6a 00 push 0x0

c0021fbd: 68 9d 00 00 00 push 0x9d

c0021fc2: e9 46 f9 ff ff jmp c002190d <intr\_entry>

c0021fc7 <intr9e\_stub>:

c0021fc7: 55 push ebp

c0021fc8: 6a 00 push 0x0

c0021fca: 68 9e 00 00 00 push 0x9e

c0021fcf: e9 39 f9 ff ff jmp c002190d <intr\_entry>

c0021fd4 <intr9f\_stub>:

c0021fd4: 55 push ebp

c0021fd5: 6a 00 push 0x0

c0021fd7: 68 9f 00 00 00 push 0x9f

c0021fdc: e9 2c f9 ff ff jmp c002190d <intr\_entry>

c0021fe1 <intra0\_stub>:

c0021fe1: 55 push ebp

c0021fe2: 6a 00 push 0x0

c0021fe4: 68 a0 00 00 00 push 0xa0

c0021fe9: e9 1f f9 ff ff jmp c002190d <intr\_entry>

c0021fee <intra1\_stub>:

c0021fee: 55 push ebp

c0021fef: 6a 00 push 0x0

c0021ff1: 68 a1 00 00 00 push 0xa1

c0021ff6: e9 12 f9 ff ff jmp c002190d <intr\_entry>

c0021ffb <intra2\_stub>:

c0021ffb: 55 push ebp

c0021ffc: 6a 00 push 0x0

c0021ffe: 68 a2 00 00 00 push 0xa2

c0022003: e9 05 f9 ff ff jmp c002190d <intr\_entry>

c0022008 <intra3\_stub>:

c0022008: 55 push ebp

c0022009: 6a 00 push 0x0

c002200b: 68 a3 00 00 00 push 0xa3

c0022010: e9 f8 f8 ff ff jmp c002190d <intr\_entry>

c0022015 <intra4\_stub>:

c0022015: 55 push ebp

c0022016: 6a 00 push 0x0

c0022018: 68 a4 00 00 00 push 0xa4

c002201d: e9 eb f8 ff ff jmp c002190d <intr\_entry>

c0022022 <intra5\_stub>:

c0022022: 55 push ebp

c0022023: 6a 00 push 0x0

c0022025: 68 a5 00 00 00 push 0xa5

c002202a: e9 de f8 ff ff jmp c002190d <intr\_entry>

c002202f <intra6\_stub>:

c002202f: 55 push ebp

c0022030: 6a 00 push 0x0

c0022032: 68 a6 00 00 00 push 0xa6

c0022037: e9 d1 f8 ff ff jmp c002190d <intr\_entry>

c002203c <intra7\_stub>:

c002203c: 55 push ebp

c002203d: 6a 00 push 0x0

c002203f: 68 a7 00 00 00 push 0xa7

c0022044: e9 c4 f8 ff ff jmp c002190d <intr\_entry>

c0022049 <intra8\_stub>:

c0022049: 55 push ebp

c002204a: 6a 00 push 0x0

c002204c: 68 a8 00 00 00 push 0xa8

c0022051: e9 b7 f8 ff ff jmp c002190d <intr\_entry>

c0022056 <intra9\_stub>:

c0022056: 55 push ebp

c0022057: 6a 00 push 0x0

c0022059: 68 a9 00 00 00 push 0xa9

c002205e: e9 aa f8 ff ff jmp c002190d <intr\_entry>

c0022063 <intraa\_stub>:

c0022063: 55 push ebp

c0022064: 6a 00 push 0x0

c0022066: 68 aa 00 00 00 push 0xaa

c002206b: e9 9d f8 ff ff jmp c002190d <intr\_entry>

c0022070 <intrab\_stub>:

c0022070: 55 push ebp

c0022071: 6a 00 push 0x0

c0022073: 68 ab 00 00 00 push 0xab

c0022078: e9 90 f8 ff ff jmp c002190d <intr\_entry>

c002207d <intrac\_stub>:

c002207d: 55 push ebp

c002207e: 6a 00 push 0x0

c0022080: 68 ac 00 00 00 push 0xac

c0022085: e9 83 f8 ff ff jmp c002190d <intr\_entry>

c002208a <intrad\_stub>:

c002208a: 55 push ebp

c002208b: 6a 00 push 0x0

c002208d: 68 ad 00 00 00 push 0xad

c0022092: e9 76 f8 ff ff jmp c002190d <intr\_entry>

c0022097 <intrae\_stub>:

c0022097: 55 push ebp

c0022098: 6a 00 push 0x0

c002209a: 68 ae 00 00 00 push 0xae

c002209f: e9 69 f8 ff ff jmp c002190d <intr\_entry>

c00220a4 <intraf\_stub>:

c00220a4: 55 push ebp

c00220a5: 6a 00 push 0x0

c00220a7: 68 af 00 00 00 push 0xaf

c00220ac: e9 5c f8 ff ff jmp c002190d <intr\_entry>

c00220b1 <intrb0\_stub>:

c00220b1: 55 push ebp

c00220b2: 6a 00 push 0x0

c00220b4: 68 b0 00 00 00 push 0xb0

c00220b9: e9 4f f8 ff ff jmp c002190d <intr\_entry>

c00220be <intrb1\_stub>:

c00220be: 55 push ebp

c00220bf: 6a 00 push 0x0

c00220c1: 68 b1 00 00 00 push 0xb1

c00220c6: e9 42 f8 ff ff jmp c002190d <intr\_entry>

c00220cb <intrb2\_stub>:

c00220cb: 55 push ebp

c00220cc: 6a 00 push 0x0

c00220ce: 68 b2 00 00 00 push 0xb2

c00220d3: e9 35 f8 ff ff jmp c002190d <intr\_entry>

c00220d8 <intrb3\_stub>:

c00220d8: 55 push ebp

c00220d9: 6a 00 push 0x0

c00220db: 68 b3 00 00 00 push 0xb3

c00220e0: e9 28 f8 ff ff jmp c002190d <intr\_entry>

c00220e5 <intrb4\_stub>:

c00220e5: 55 push ebp

c00220e6: 6a 00 push 0x0

c00220e8: 68 b4 00 00 00 push 0xb4

c00220ed: e9 1b f8 ff ff jmp c002190d <intr\_entry>

c00220f2 <intrb5\_stub>:

c00220f2: 55 push ebp

c00220f3: 6a 00 push 0x0

c00220f5: 68 b5 00 00 00 push 0xb5

c00220fa: e9 0e f8 ff ff jmp c002190d <intr\_entry>

c00220ff <intrb6\_stub>:

c00220ff: 55 push ebp

c0022100: 6a 00 push 0x0

c0022102: 68 b6 00 00 00 push 0xb6

c0022107: e9 01 f8 ff ff jmp c002190d <intr\_entry>

c002210c <intrb7\_stub>:

c002210c: 55 push ebp

c002210d: 6a 00 push 0x0

c002210f: 68 b7 00 00 00 push 0xb7

c0022114: e9 f4 f7 ff ff jmp c002190d <intr\_entry>

c0022119 <intrb8\_stub>:

c0022119: 55 push ebp

c002211a: 6a 00 push 0x0

c002211c: 68 b8 00 00 00 push 0xb8

c0022121: e9 e7 f7 ff ff jmp c002190d <intr\_entry>

c0022126 <intrb9\_stub>:

c0022126: 55 push ebp

c0022127: 6a 00 push 0x0

c0022129: 68 b9 00 00 00 push 0xb9

c002212e: e9 da f7 ff ff jmp c002190d <intr\_entry>

c0022133 <intrba\_stub>:

c0022133: 55 push ebp

c0022134: 6a 00 push 0x0

c0022136: 68 ba 00 00 00 push 0xba

c002213b: e9 cd f7 ff ff jmp c002190d <intr\_entry>

c0022140 <intrbb\_stub>:

c0022140: 55 push ebp

c0022141: 6a 00 push 0x0

c0022143: 68 bb 00 00 00 push 0xbb

c0022148: e9 c0 f7 ff ff jmp c002190d <intr\_entry>

c002214d <intrbc\_stub>:

c002214d: 55 push ebp

c002214e: 6a 00 push 0x0

c0022150: 68 bc 00 00 00 push 0xbc

c0022155: e9 b3 f7 ff ff jmp c002190d <intr\_entry>

c002215a <intrbd\_stub>:

c002215a: 55 push ebp

c002215b: 6a 00 push 0x0

c002215d: 68 bd 00 00 00 push 0xbd

c0022162: e9 a6 f7 ff ff jmp c002190d <intr\_entry>

c0022167 <intrbe\_stub>:

c0022167: 55 push ebp

c0022168: 6a 00 push 0x0

c002216a: 68 be 00 00 00 push 0xbe

c002216f: e9 99 f7 ff ff jmp c002190d <intr\_entry>

c0022174 <intrbf\_stub>:

c0022174: 55 push ebp

c0022175: 6a 00 push 0x0

c0022177: 68 bf 00 00 00 push 0xbf

c002217c: e9 8c f7 ff ff jmp c002190d <intr\_entry>

c0022181 <intrc0\_stub>:

c0022181: 55 push ebp

c0022182: 6a 00 push 0x0

c0022184: 68 c0 00 00 00 push 0xc0

c0022189: e9 7f f7 ff ff jmp c002190d <intr\_entry>

c002218e <intrc1\_stub>:

c002218e: 55 push ebp

c002218f: 6a 00 push 0x0

c0022191: 68 c1 00 00 00 push 0xc1

c0022196: e9 72 f7 ff ff jmp c002190d <intr\_entry>

c002219b <intrc2\_stub>:

c002219b: 55 push ebp

c002219c: 6a 00 push 0x0

c002219e: 68 c2 00 00 00 push 0xc2

c00221a3: e9 65 f7 ff ff jmp c002190d <intr\_entry>

c00221a8 <intrc3\_stub>:

c00221a8: 55 push ebp

c00221a9: 6a 00 push 0x0

c00221ab: 68 c3 00 00 00 push 0xc3

c00221b0: e9 58 f7 ff ff jmp c002190d <intr\_entry>

c00221b5 <intrc4\_stub>:

c00221b5: 55 push ebp

c00221b6: 6a 00 push 0x0

c00221b8: 68 c4 00 00 00 push 0xc4

c00221bd: e9 4b f7 ff ff jmp c002190d <intr\_entry>

c00221c2 <intrc5\_stub>:

c00221c2: 55 push ebp

c00221c3: 6a 00 push 0x0

c00221c5: 68 c5 00 00 00 push 0xc5

c00221ca: e9 3e f7 ff ff jmp c002190d <intr\_entry>

c00221cf <intrc6\_stub>:

c00221cf: 55 push ebp

c00221d0: 6a 00 push 0x0

c00221d2: 68 c6 00 00 00 push 0xc6

c00221d7: e9 31 f7 ff ff jmp c002190d <intr\_entry>

c00221dc <intrc7\_stub>:

c00221dc: 55 push ebp

c00221dd: 6a 00 push 0x0

c00221df: 68 c7 00 00 00 push 0xc7

c00221e4: e9 24 f7 ff ff jmp c002190d <intr\_entry>

c00221e9 <intrc8\_stub>:

c00221e9: 55 push ebp

c00221ea: 6a 00 push 0x0

c00221ec: 68 c8 00 00 00 push 0xc8

c00221f1: e9 17 f7 ff ff jmp c002190d <intr\_entry>

c00221f6 <intrc9\_stub>:

c00221f6: 55 push ebp

c00221f7: 6a 00 push 0x0

c00221f9: 68 c9 00 00 00 push 0xc9

c00221fe: e9 0a f7 ff ff jmp c002190d <intr\_entry>

c0022203 <intrca\_stub>:

c0022203: 55 push ebp

c0022204: 6a 00 push 0x0

c0022206: 68 ca 00 00 00 push 0xca

c002220b: e9 fd f6 ff ff jmp c002190d <intr\_entry>

c0022210 <intrcb\_stub>:

c0022210: 55 push ebp

c0022211: 6a 00 push 0x0

c0022213: 68 cb 00 00 00 push 0xcb

c0022218: e9 f0 f6 ff ff jmp c002190d <intr\_entry>

c002221d <intrcc\_stub>:

c002221d: 55 push ebp

c002221e: 6a 00 push 0x0

c0022220: 68 cc 00 00 00 push 0xcc

c0022225: e9 e3 f6 ff ff jmp c002190d <intr\_entry>

c002222a <intrcd\_stub>:

c002222a: 55 push ebp

c002222b: 6a 00 push 0x0

c002222d: 68 cd 00 00 00 push 0xcd

c0022232: e9 d6 f6 ff ff jmp c002190d <intr\_entry>

c0022237 <intrce\_stub>:

c0022237: 55 push ebp

c0022238: 6a 00 push 0x0

c002223a: 68 ce 00 00 00 push 0xce

c002223f: e9 c9 f6 ff ff jmp c002190d <intr\_entry>

c0022244 <intrcf\_stub>:

c0022244: 55 push ebp

c0022245: 6a 00 push 0x0

c0022247: 68 cf 00 00 00 push 0xcf

c002224c: e9 bc f6 ff ff jmp c002190d <intr\_entry>

c0022251 <intrd0\_stub>:

c0022251: 55 push ebp

c0022252: 6a 00 push 0x0

c0022254: 68 d0 00 00 00 push 0xd0

c0022259: e9 af f6 ff ff jmp c002190d <intr\_entry>

c002225e <intrd1\_stub>:

c002225e: 55 push ebp

c002225f: 6a 00 push 0x0

c0022261: 68 d1 00 00 00 push 0xd1

c0022266: e9 a2 f6 ff ff jmp c002190d <intr\_entry>

c002226b <intrd2\_stub>:

c002226b: 55 push ebp

c002226c: 6a 00 push 0x0

c002226e: 68 d2 00 00 00 push 0xd2

c0022273: e9 95 f6 ff ff jmp c002190d <intr\_entry>

c0022278 <intrd3\_stub>:

c0022278: 55 push ebp

c0022279: 6a 00 push 0x0

c002227b: 68 d3 00 00 00 push 0xd3

c0022280: e9 88 f6 ff ff jmp c002190d <intr\_entry>

c0022285 <intrd4\_stub>:

c0022285: 55 push ebp

c0022286: 6a 00 push 0x0

c0022288: 68 d4 00 00 00 push 0xd4

c002228d: e9 7b f6 ff ff jmp c002190d <intr\_entry>

c0022292 <intrd5\_stub>:

c0022292: 55 push ebp

c0022293: 6a 00 push 0x0

c0022295: 68 d5 00 00 00 push 0xd5

c002229a: e9 6e f6 ff ff jmp c002190d <intr\_entry>

c002229f <intrd6\_stub>:

c002229f: 55 push ebp

c00222a0: 6a 00 push 0x0

c00222a2: 68 d6 00 00 00 push 0xd6

c00222a7: e9 61 f6 ff ff jmp c002190d <intr\_entry>

c00222ac <intrd7\_stub>:

c00222ac: 55 push ebp

c00222ad: 6a 00 push 0x0

c00222af: 68 d7 00 00 00 push 0xd7

c00222b4: e9 54 f6 ff ff jmp c002190d <intr\_entry>

c00222b9 <intrd8\_stub>:

c00222b9: 55 push ebp

c00222ba: 6a 00 push 0x0

c00222bc: 68 d8 00 00 00 push 0xd8

c00222c1: e9 47 f6 ff ff jmp c002190d <intr\_entry>

c00222c6 <intrd9\_stub>:

c00222c6: 55 push ebp

c00222c7: 6a 00 push 0x0

c00222c9: 68 d9 00 00 00 push 0xd9

c00222ce: e9 3a f6 ff ff jmp c002190d <intr\_entry>

c00222d3 <intrda\_stub>:

c00222d3: 55 push ebp

c00222d4: 6a 00 push 0x0

c00222d6: 68 da 00 00 00 push 0xda

c00222db: e9 2d f6 ff ff jmp c002190d <intr\_entry>

c00222e0 <intrdb\_stub>:

c00222e0: 55 push ebp

c00222e1: 6a 00 push 0x0

c00222e3: 68 db 00 00 00 push 0xdb

c00222e8: e9 20 f6 ff ff jmp c002190d <intr\_entry>

c00222ed <intrdc\_stub>:

c00222ed: 55 push ebp

c00222ee: 6a 00 push 0x0

c00222f0: 68 dc 00 00 00 push 0xdc

c00222f5: e9 13 f6 ff ff jmp c002190d <intr\_entry>

c00222fa <intrdd\_stub>:

c00222fa: 55 push ebp

c00222fb: 6a 00 push 0x0

c00222fd: 68 dd 00 00 00 push 0xdd

c0022302: e9 06 f6 ff ff jmp c002190d <intr\_entry>

c0022307 <intrde\_stub>:

c0022307: 55 push ebp

c0022308: 6a 00 push 0x0

c002230a: 68 de 00 00 00 push 0xde

c002230f: e9 f9 f5 ff ff jmp c002190d <intr\_entry>

c0022314 <intrdf\_stub>:

c0022314: 55 push ebp

c0022315: 6a 00 push 0x0

c0022317: 68 df 00 00 00 push 0xdf

c002231c: e9 ec f5 ff ff jmp c002190d <intr\_entry>

c0022321 <intre0\_stub>:

c0022321: 55 push ebp

c0022322: 6a 00 push 0x0

c0022324: 68 e0 00 00 00 push 0xe0

c0022329: e9 df f5 ff ff jmp c002190d <intr\_entry>

c002232e <intre1\_stub>:

c002232e: 55 push ebp

c002232f: 6a 00 push 0x0

c0022331: 68 e1 00 00 00 push 0xe1

c0022336: e9 d2 f5 ff ff jmp c002190d <intr\_entry>

c002233b <intre2\_stub>:

c002233b: 55 push ebp

c002233c: 6a 00 push 0x0

c002233e: 68 e2 00 00 00 push 0xe2

c0022343: e9 c5 f5 ff ff jmp c002190d <intr\_entry>

c0022348 <intre3\_stub>:

c0022348: 55 push ebp

c0022349: 6a 00 push 0x0

c002234b: 68 e3 00 00 00 push 0xe3

c0022350: e9 b8 f5 ff ff jmp c002190d <intr\_entry>

c0022355 <intre4\_stub>:

c0022355: 55 push ebp

c0022356: 6a 00 push 0x0

c0022358: 68 e4 00 00 00 push 0xe4

c002235d: e9 ab f5 ff ff jmp c002190d <intr\_entry>

c0022362 <intre5\_stub>:

c0022362: 55 push ebp

c0022363: 6a 00 push 0x0

c0022365: 68 e5 00 00 00 push 0xe5

c002236a: e9 9e f5 ff ff jmp c002190d <intr\_entry>

c002236f <intre6\_stub>:

c002236f: 55 push ebp

c0022370: 6a 00 push 0x0

c0022372: 68 e6 00 00 00 push 0xe6

c0022377: e9 91 f5 ff ff jmp c002190d <intr\_entry>

c002237c <intre7\_stub>:

c002237c: 55 push ebp

c002237d: 6a 00 push 0x0

c002237f: 68 e7 00 00 00 push 0xe7

c0022384: e9 84 f5 ff ff jmp c002190d <intr\_entry>

c0022389 <intre8\_stub>:

c0022389: 55 push ebp

c002238a: 6a 00 push 0x0

c002238c: 68 e8 00 00 00 push 0xe8

c0022391: e9 77 f5 ff ff jmp c002190d <intr\_entry>

c0022396 <intre9\_stub>:

c0022396: 55 push ebp

c0022397: 6a 00 push 0x0

c0022399: 68 e9 00 00 00 push 0xe9

c002239e: e9 6a f5 ff ff jmp c002190d <intr\_entry>

c00223a3 <intrea\_stub>:

c00223a3: 55 push ebp

c00223a4: 6a 00 push 0x0

c00223a6: 68 ea 00 00 00 push 0xea

c00223ab: e9 5d f5 ff ff jmp c002190d <intr\_entry>

c00223b0 <intreb\_stub>:

c00223b0: 55 push ebp

c00223b1: 6a 00 push 0x0

c00223b3: 68 eb 00 00 00 push 0xeb

c00223b8: e9 50 f5 ff ff jmp c002190d <intr\_entry>

c00223bd <intrec\_stub>:

c00223bd: 55 push ebp

c00223be: 6a 00 push 0x0

c00223c0: 68 ec 00 00 00 push 0xec

c00223c5: e9 43 f5 ff ff jmp c002190d <intr\_entry>

c00223ca <intred\_stub>:

c00223ca: 55 push ebp

c00223cb: 6a 00 push 0x0

c00223cd: 68 ed 00 00 00 push 0xed

c00223d2: e9 36 f5 ff ff jmp c002190d <intr\_entry>

c00223d7 <intree\_stub>:

c00223d7: 55 push ebp

c00223d8: 6a 00 push 0x0

c00223da: 68 ee 00 00 00 push 0xee

c00223df: e9 29 f5 ff ff jmp c002190d <intr\_entry>

c00223e4 <intref\_stub>:

c00223e4: 55 push ebp

c00223e5: 6a 00 push 0x0

c00223e7: 68 ef 00 00 00 push 0xef

c00223ec: e9 1c f5 ff ff jmp c002190d <intr\_entry>

c00223f1 <intrf0\_stub>:

c00223f1: 55 push ebp

c00223f2: 6a 00 push 0x0

c00223f4: 68 f0 00 00 00 push 0xf0

c00223f9: e9 0f f5 ff ff jmp c002190d <intr\_entry>

c00223fe <intrf1\_stub>:

c00223fe: 55 push ebp

c00223ff: 6a 00 push 0x0

c0022401: 68 f1 00 00 00 push 0xf1

c0022406: e9 02 f5 ff ff jmp c002190d <intr\_entry>

c002240b <intrf2\_stub>:

c002240b: 55 push ebp

c002240c: 6a 00 push 0x0

c002240e: 68 f2 00 00 00 push 0xf2

c0022413: e9 f5 f4 ff ff jmp c002190d <intr\_entry>

c0022418 <intrf3\_stub>:

c0022418: 55 push ebp

c0022419: 6a 00 push 0x0

c002241b: 68 f3 00 00 00 push 0xf3

c0022420: e9 e8 f4 ff ff jmp c002190d <intr\_entry>

c0022425 <intrf4\_stub>:

c0022425: 55 push ebp

c0022426: 6a 00 push 0x0

c0022428: 68 f4 00 00 00 push 0xf4

c002242d: e9 db f4 ff ff jmp c002190d <intr\_entry>

c0022432 <intrf5\_stub>:

c0022432: 55 push ebp

c0022433: 6a 00 push 0x0

c0022435: 68 f5 00 00 00 push 0xf5

c002243a: e9 ce f4 ff ff jmp c002190d <intr\_entry>

c002243f <intrf6\_stub>:

c002243f: 55 push ebp

c0022440: 6a 00 push 0x0

c0022442: 68 f6 00 00 00 push 0xf6

c0022447: e9 c1 f4 ff ff jmp c002190d <intr\_entry>

c002244c <intrf7\_stub>:

c002244c: 55 push ebp

c002244d: 6a 00 push 0x0

c002244f: 68 f7 00 00 00 push 0xf7

c0022454: e9 b4 f4 ff ff jmp c002190d <intr\_entry>

c0022459 <intrf8\_stub>:

c0022459: 55 push ebp

c002245a: 6a 00 push 0x0

c002245c: 68 f8 00 00 00 push 0xf8

c0022461: e9 a7 f4 ff ff jmp c002190d <intr\_entry>

c0022466 <intrf9\_stub>:

c0022466: 55 push ebp

c0022467: 6a 00 push 0x0

c0022469: 68 f9 00 00 00 push 0xf9

c002246e: e9 9a f4 ff ff jmp c002190d <intr\_entry>

c0022473 <intrfa\_stub>:

c0022473: 55 push ebp

c0022474: 6a 00 push 0x0

c0022476: 68 fa 00 00 00 push 0xfa

c002247b: e9 8d f4 ff ff jmp c002190d <intr\_entry>

c0022480 <intrfb\_stub>:

c0022480: 55 push ebp

c0022481: 6a 00 push 0x0

c0022483: 68 fb 00 00 00 push 0xfb

c0022488: e9 80 f4 ff ff jmp c002190d <intr\_entry>

c002248d <intrfc\_stub>:

c002248d: 55 push ebp

c002248e: 6a 00 push 0x0

c0022490: 68 fc 00 00 00 push 0xfc

c0022495: e9 73 f4 ff ff jmp c002190d <intr\_entry>

c002249a <intrfd\_stub>:

c002249a: 55 push ebp

c002249b: 6a 00 push 0x0

c002249d: 68 fd 00 00 00 push 0xfd

c00224a2: e9 66 f4 ff ff jmp c002190d <intr\_entry>

c00224a7 <intrfe\_stub>:

c00224a7: 55 push ebp

c00224a8: 6a 00 push 0x0

c00224aa: 68 fe 00 00 00 push 0xfe

c00224af: e9 59 f4 ff ff jmp c002190d <intr\_entry>

c00224b4 <intrff\_stub>:

c00224b4: 55 push ebp

c00224b5: 6a 00 push 0x0

c00224b7: 68 ff 00 00 00 push 0xff

c00224bc: e9 4c f4 ff ff jmp c002190d <intr\_entry>

c00224c1 <sema\_init>:

c00224c1: 83 ec 0c sub esp,0xc

c00224c4: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00224c8: 85 c0 test eax,eax

c00224ca: 75 1e jne c00224ea <sema\_init+0x29>

c00224cc: 83 ec 0c sub esp,0xc

c00224cf: 68 2e f9 02 c0 push 0xc002f92e

c00224d4: 68 83 ed 02 c0 push 0xc002ed83

c00224d9: 68 6c d8 02 c0 push 0xc002d86c

c00224de: 6a 2f push 0x2f

c00224e0: 68 3b f9 02 c0 push 0xc002f93b

c00224e5: e8 53 54 00 00 call c002793d <debug\_panic>

c00224ea: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c00224ee: 89 10 mov DWORD PTR [eax],edx

c00224f0: 83 ec 0c sub esp,0xc

c00224f3: 83 c0 04 add eax,0x4

c00224f6: 50 push eax

c00224f7: e8 e8 54 00 00 call c00279e4 <list\_init>

c00224fc: 83 c4 1c add esp,0x1c

c00224ff: c3 ret

c0022500 <sema\_down>:

c0022500: 57 push edi

c0022501: 56 push esi

c0022502: 53 push ebx

c0022503: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0022507: 85 db test ebx,ebx

c0022509: 75 1e jne c0022529 <sema\_down+0x29>

c002250b: 83 ec 0c sub esp,0xc

c002250e: 68 2e f9 02 c0 push 0xc002f92e

c0022513: 68 83 ed 02 c0 push 0xc002ed83

c0022518: 68 60 d8 02 c0 push 0xc002d860

c002251d: 6a 41 push 0x41

c002251f: 68 3b f9 02 c0 push 0xc002f93b

c0022524: e8 14 54 00 00 call c002793d <debug\_panic>

c0022529: e8 93 f1 ff ff call c00216c1 <intr\_context>

c002252e: 84 c0 test al,al

c0022530: 74 1e je c0022550 <sema\_down+0x50>

c0022532: 83 ec 0c sub esp,0xc

c0022535: 68 c1 f4 02 c0 push 0xc002f4c1

c002253a: 68 83 ed 02 c0 push 0xc002ed83

c002253f: 68 60 d8 02 c0 push 0xc002d860

c0022544: 6a 42 push 0x42

c0022546: 68 3b f9 02 c0 push 0xc002f93b

c002254b: e8 ed 53 00 00 call c002793d <debug\_panic>

c0022550: e8 2d ef ff ff call c0021482 <intr\_disable>

c0022555: 89 c7 mov edi,eax

c0022557: 8b 03 mov eax,DWORD PTR [ebx]

c0022559: 85 c0 test eax,eax

c002255b: 75 23 jne c0022580 <sema\_down+0x80>

c002255d: 8d 73 04 lea esi,[ebx+0x4]

c0022560: e8 86 e6 ff ff call c0020beb <thread\_current>

c0022565: 83 ec 08 sub esp,0x8

c0022568: 83 c0 28 add eax,0x28

c002256b: 50 push eax

c002256c: 56 push esi

c002256d: e8 16 59 00 00 call c0027e88 <list\_push\_back>

c0022572: e8 19 eb ff ff call c0021090 <thread\_block>

c0022577: 8b 03 mov eax,DWORD PTR [ebx]

c0022579: 83 c4 10 add esp,0x10

c002257c: 85 c0 test eax,eax

c002257e: 74 e0 je c0022560 <sema\_down+0x60>

c0022580: 83 e8 01 sub eax,0x1

c0022583: 89 03 mov DWORD PTR [ebx],eax

c0022585: 83 ec 0c sub esp,0xc

c0022588: 57 push edi

c0022589: e8 fb ee ff ff call c0021489 <intr\_set\_level>

c002258e: 83 c4 10 add esp,0x10

c0022591: 5b pop ebx

c0022592: 5e pop esi

c0022593: 5f pop edi

c0022594: c3 ret

c0022595 <sema\_try\_down>:

c0022595: 56 push esi

c0022596: 53 push ebx

c0022597: 83 ec 04 sub esp,0x4

c002259a: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002259e: 85 db test ebx,ebx

c00225a0: 75 1e jne c00225c0 <sema\_try\_down+0x2b>

c00225a2: 83 ec 0c sub esp,0xc

c00225a5: 68 2e f9 02 c0 push 0xc002f92e

c00225aa: 68 83 ed 02 c0 push 0xc002ed83

c00225af: 68 50 d8 02 c0 push 0xc002d850

c00225b4: 6a 59 push 0x59

c00225b6: 68 3b f9 02 c0 push 0xc002f93b

c00225bb: e8 7d 53 00 00 call c002793d <debug\_panic>

c00225c0: e8 bd ee ff ff call c0021482 <intr\_disable>

c00225c5: 8b 13 mov edx,DWORD PTR [ebx]

c00225c7: be 00 00 00 00 mov esi,0x0

c00225cc: 85 d2 test edx,edx

c00225ce: 74 0a je c00225da <sema\_try\_down+0x45>

c00225d0: 83 ea 01 sub edx,0x1

c00225d3: 89 13 mov DWORD PTR [ebx],edx

c00225d5: be 01 00 00 00 mov esi,0x1

c00225da: 83 ec 0c sub esp,0xc

c00225dd: 50 push eax

c00225de: e8 a6 ee ff ff call c0021489 <intr\_set\_level>

c00225e3: 89 f0 mov eax,esi

c00225e5: 83 c4 14 add esp,0x14

c00225e8: 5b pop ebx

c00225e9: 5e pop esi

c00225ea: c3 ret

c00225eb <sema\_up>:

c00225eb: 57 push edi

c00225ec: 56 push esi

c00225ed: 53 push ebx

c00225ee: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00225f2: 85 db test ebx,ebx

c00225f4: 75 1e jne c0022614 <sema\_up+0x29>

c00225f6: 83 ec 0c sub esp,0xc

c00225f9: 68 2e f9 02 c0 push 0xc002f92e

c00225fe: 68 83 ed 02 c0 push 0xc002ed83

c0022603: 68 48 d8 02 c0 push 0xc002d848

c0022608: 6a 71 push 0x71

c002260a: 68 3b f9 02 c0 push 0xc002f93b

c002260f: e8 29 53 00 00 call c002793d <debug\_panic>

c0022614: e8 69 ee ff ff call c0021482 <intr\_disable>

c0022619: 89 c7 mov edi,eax

c002261b: 8d 73 04 lea esi,[ebx+0x4]

c002261e: 83 ec 0c sub esp,0xc

c0022621: 56 push esi

c0022622: e8 0b 59 00 00 call c0027f32 <list\_empty>

c0022627: 83 c4 10 add esp,0x10

c002262a: 84 c0 test al,al

c002262c: 75 17 jne c0022645 <sema\_up+0x5a>

c002262e: 83 ec 0c sub esp,0xc

c0022631: 56 push esi

c0022632: e8 5d 59 00 00 call c0027f94 <list\_pop\_front>

c0022637: 83 e8 28 sub eax,0x28

c002263a: 89 04 24 mov DWORD PTR [esp],eax

c002263d: e8 15 e5 ff ff call c0020b57 <thread\_unblock>

c0022642: 83 c4 10 add esp,0x10

c0022645: 83 03 01 add DWORD PTR [ebx],0x1

c0022648: 83 ec 0c sub esp,0xc

c002264b: 57 push edi

c002264c: e8 38 ee ff ff call c0021489 <intr\_set\_level>

c0022651: 83 c4 10 add esp,0x10

c0022654: 5b pop ebx

c0022655: 5e pop esi

c0022656: 5f pop edi

c0022657: c3 ret

c0022658 <sema\_test\_helper>:

c0022658: 57 push edi

c0022659: 56 push esi

c002265a: 53 push ebx

c002265b: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002265f: bb 0a 00 00 00 mov ebx,0xa

c0022664: 8d 7e 14 lea edi,[esi+0x14]

c0022667: 83 ec 0c sub esp,0xc

c002266a: 56 push esi

c002266b: e8 90 fe ff ff call c0022500 <sema\_down>

c0022670: 89 3c 24 mov DWORD PTR [esp],edi

c0022673: e8 73 ff ff ff call c00225eb <sema\_up>

c0022678: 83 c4 10 add esp,0x10

c002267b: 83 eb 01 sub ebx,0x1

c002267e: 75 e7 jne c0022667 <sema\_test\_helper+0xf>

c0022680: 5b pop ebx

c0022681: 5e pop esi

c0022682: 5f pop edi

c0022683: c3 ret

c0022684 <sema\_self\_test>:

c0022684: 57 push edi

c0022685: 56 push esi

c0022686: 53 push ebx

c0022687: 83 ec 3c sub esp,0x3c

c002268a: 68 51 f9 02 c0 push 0xc002f951

c002268f: e8 31 36 00 00 call c0025cc5 <printf>

c0022694: 83 c4 08 add esp,0x8

c0022697: 6a 00 push 0x0

c0022699: 8d 5c 24 14 lea ebx,[esp+0x14]

c002269d: 53 push ebx

c002269e: e8 1e fe ff ff call c00224c1 <sema\_init>

c00226a3: 83 c4 08 add esp,0x8

c00226a6: 6a 00 push 0x0

c00226a8: 8d 44 24 28 lea eax,[esp+0x28]

c00226ac: 50 push eax

c00226ad: e8 0f fe ff ff call c00224c1 <sema\_init>

c00226b2: 53 push ebx

c00226b3: 68 58 26 02 c0 push 0xc0022658

c00226b8: 6a 1f push 0x1f

c00226ba: 68 67 f9 02 c0 push 0xc002f967

c00226bf: e8 08 e6 ff ff call c0020ccc <thread\_create>

c00226c4: 83 c4 20 add esp,0x20

c00226c7: bb 0a 00 00 00 mov ebx,0xa

c00226cc: 8d 7c 24 08 lea edi,[esp+0x8]

c00226d0: 8d 74 24 1c lea esi,[esp+0x1c]

c00226d4: 83 ec 0c sub esp,0xc

c00226d7: 57 push edi

c00226d8: e8 0e ff ff ff call c00225eb <sema\_up>

c00226dd: 89 34 24 mov DWORD PTR [esp],esi

c00226e0: e8 1b fe ff ff call c0022500 <sema\_down>

c00226e5: 83 c4 10 add esp,0x10

c00226e8: 83 eb 01 sub ebx,0x1

c00226eb: 75 e7 jne c00226d4 <sema\_self\_test+0x50>

c00226ed: 83 ec 0c sub esp,0xc

c00226f0: 68 71 f9 02 c0 push 0xc002f971

c00226f5: e8 56 6d 00 00 call c0029450 <puts>

c00226fa: 83 c4 40 add esp,0x40

c00226fd: 5b pop ebx

c00226fe: 5e pop esi

c00226ff: 5f pop edi

c0022700: c3 ret

c0022701 <lock\_init>:

c0022701: 83 ec 0c sub esp,0xc

c0022704: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0022708: 85 c0 test eax,eax

c002270a: 75 21 jne c002272d <lock\_init+0x2c>

c002270c: 83 ec 0c sub esp,0xc

c002270f: 68 77 f9 02 c0 push 0xc002f977

c0022714: 68 83 ed 02 c0 push 0xc002ed83

c0022719: 68 3c d8 02 c0 push 0xc002d83c

c002271e: 68 b2 00 00 00 push 0xb2

c0022723: 68 3b f9 02 c0 push 0xc002f93b

c0022728: e8 10 52 00 00 call c002793d <debug\_panic>

c002272d: c7 00 00 00 00 00 mov DWORD PTR [eax],0x0

c0022733: 83 ec 08 sub esp,0x8

c0022736: 6a 01 push 0x1

c0022738: 83 c0 04 add eax,0x4

c002273b: 50 push eax

c002273c: e8 80 fd ff ff call c00224c1 <sema\_init>

c0022741: 83 c4 1c add esp,0x1c

c0022744: c3 ret

c0022745 <lock\_held\_by\_current\_thread>:

c0022745: 53 push ebx

c0022746: 83 ec 08 sub esp,0x8

c0022749: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002274d: 85 c0 test eax,eax

c002274f: 75 21 jne c0022772 <lock\_held\_by\_current\_th

read+0x2d>

c0022751: 83 ec 0c sub esp,0xc

c0022754: 68 77 f9 02 c0 push 0xc002f977

c0022759: 68 83 ed 02 c0 push 0xc002ed83

c002275e: 68 ec d7 02 c0 push 0xc002d7ec

c0022763: 68 f9 00 00 00 push 0xf9

c0022768: 68 3b f9 02 c0 push 0xc002f93b

c002276d: e8 cb 51 00 00 call c002793d <debug\_panic>

c0022772: 8b 18 mov ebx,DWORD PTR [eax]

c0022774: e8 72 e4 ff ff call c0020beb <thread\_current>

c0022779: 39 c3 cmp ebx,eax

c002277b: 0f 94 c0 sete al

c002277e: 83 c4 08 add esp,0x8

c0022781: 5b pop ebx

c0022782: c3 ret

c0022783 <lock\_acquire>:

c0022783: 53 push ebx

c0022784: 83 ec 08 sub esp,0x8

c0022787: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002278b: 85 db test ebx,ebx

c002278d: 75 21 jne c00227b0 <lock\_acquire+0x2d>

c002278f: 83 ec 0c sub esp,0xc

c0022792: 68 77 f9 02 c0 push 0xc002f977

c0022797: 68 83 ed 02 c0 push 0xc002ed83

c002279c: 68 2c d8 02 c0 push 0xc002d82c

c00227a1: 68 c3 00 00 00 push 0xc3

c00227a6: 68 3b f9 02 c0 push 0xc002f93b

c00227ab: e8 8d 51 00 00 call c002793d <debug\_panic>

c00227b0: e8 0c ef ff ff call c00216c1 <intr\_context>

c00227b5: 84 c0 test al,al

c00227b7: 74 21 je c00227da <lock\_acquire+0x57>

c00227b9: 83 ec 0c sub esp,0xc

c00227bc: 68 c1 f4 02 c0 push 0xc002f4c1

c00227c1: 68 83 ed 02 c0 push 0xc002ed83

c00227c6: 68 2c d8 02 c0 push 0xc002d82c

c00227cb: 68 c4 00 00 00 push 0xc4

c00227d0: 68 3b f9 02 c0 push 0xc002f93b

c00227d5: e8 63 51 00 00 call c002793d <debug\_panic>

c00227da: 83 ec 0c sub esp,0xc

c00227dd: 53 push ebx

c00227de: e8 62 ff ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c00227e3: 83 c4 10 add esp,0x10

c00227e6: 84 c0 test al,al

c00227e8: 74 21 je c002280b <lock\_acquire+0x88>

c00227ea: 83 ec 0c sub esp,0xc

c00227ed: 68 94 f9 02 c0 push 0xc002f994

c00227f2: 68 83 ed 02 c0 push 0xc002ed83

c00227f7: 68 2c d8 02 c0 push 0xc002d82c

c00227fc: 68 c5 00 00 00 push 0xc5

c0022801: 68 3b f9 02 c0 push 0xc002f93b

c0022806: e8 32 51 00 00 call c002793d <debug\_panic>

c002280b: 83 ec 0c sub esp,0xc

c002280e: 8d 43 04 lea eax,[ebx+0x4]

c0022811: 50 push eax

c0022812: e8 e9 fc ff ff call c0022500 <sema\_down>

c0022817: e8 cf e3 ff ff call c0020beb <thread\_current>

c002281c: 89 03 mov DWORD PTR [ebx],eax

c002281e: e8 c8 e3 ff ff call c0020beb <thread\_current>

c0022823: 83 c4 08 add esp,0x8

c0022826: 83 c3 18 add ebx,0x18

c0022829: 53 push ebx

c002282a: 83 c0 38 add eax,0x38

c002282d: 50 push eax

c002282e: e8 55 56 00 00 call c0027e88 <list\_push\_back>

c0022833: 83 c4 18 add esp,0x18

c0022836: 5b pop ebx

c0022837: c3 ret

c0022838 <lock\_try\_acquire>:

c0022838: 56 push esi

c0022839: 53 push ebx

c002283a: 83 ec 04 sub esp,0x4

c002283d: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0022841: 85 db test ebx,ebx

c0022843: 75 21 jne c0022866 <lock\_try\_acquire+0x2e>

c0022845: 83 ec 0c sub esp,0xc

c0022848: 68 77 f9 02 c0 push 0xc002f977

c002284d: 68 83 ed 02 c0 push 0xc002ed83

c0022852: 68 18 d8 02 c0 push 0xc002d818

c0022857: 68 d7 00 00 00 push 0xd7

c002285c: 68 3b f9 02 c0 push 0xc002f93b

c0022861: e8 d7 50 00 00 call c002793d <debug\_panic>

c0022866: 83 ec 0c sub esp,0xc

c0022869: 53 push ebx

c002286a: e8 d6 fe ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c002286f: 83 c4 10 add esp,0x10

c0022872: 84 c0 test al,al

c0022874: 74 21 je c0022897 <lock\_try\_acquire+0x5f>

c0022876: 83 ec 0c sub esp,0xc

c0022879: 68 94 f9 02 c0 push 0xc002f994

c002287e: 68 83 ed 02 c0 push 0xc002ed83

c0022883: 68 18 d8 02 c0 push 0xc002d818

c0022888: 68 d8 00 00 00 push 0xd8

c002288d: 68 3b f9 02 c0 push 0xc002f93b

c0022892: e8 a6 50 00 00 call c002793d <debug\_panic>

c0022897: 83 ec 0c sub esp,0xc

c002289a: 8d 43 04 lea eax,[ebx+0x4]

c002289d: 50 push eax

c002289e: e8 f2 fc ff ff call c0022595 <sema\_try\_down>

c00228a3: 89 c6 mov esi,eax

c00228a5: 83 c4 10 add esp,0x10

c00228a8: 84 c0 test al,al

c00228aa: 74 1f je c00228cb <lock\_try\_acquire+0x93>

c00228ac: e8 3a e3 ff ff call c0020beb <thread\_current>

c00228b1: 89 03 mov DWORD PTR [ebx],eax

c00228b3: e8 33 e3 ff ff call c0020beb <thread\_current>

c00228b8: 83 ec 08 sub esp,0x8

c00228bb: 83 c3 18 add ebx,0x18

c00228be: 53 push ebx

c00228bf: 83 c0 38 add eax,0x38

c00228c2: 50 push eax

c00228c3: e8 c0 55 00 00 call c0027e88 <list\_push\_back>

c00228c8: 83 c4 10 add esp,0x10

c00228cb: 89 f0 mov eax,esi

c00228cd: 83 c4 04 add esp,0x4

c00228d0: 5b pop ebx

c00228d1: 5e pop esi

c00228d2: c3 ret

c00228d3 <lock\_release>:

c00228d3: 53 push ebx

c00228d4: 83 ec 08 sub esp,0x8

c00228d7: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00228db: 85 db test ebx,ebx

c00228dd: 75 21 jne c0022900 <lock\_release+0x2d>

c00228df: 83 ec 0c sub esp,0xc

c00228e2: 68 77 f9 02 c0 push 0xc002f977

c00228e7: 68 83 ed 02 c0 push 0xc002ed83

c00228ec: 68 08 d8 02 c0 push 0xc002d808

c00228f1: 68 eb 00 00 00 push 0xeb

c00228f6: 68 3b f9 02 c0 push 0xc002f93b

c00228fb: e8 3d 50 00 00 call c002793d <debug\_panic>

c0022900: 83 ec 0c sub esp,0xc

c0022903: 53 push ebx

c0022904: e8 3c fe ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c0022909: 83 c4 10 add esp,0x10

c002290c: 84 c0 test al,al

c002290e: 75 21 jne c0022931 <lock\_release+0x5e>

c0022910: 83 ec 0c sub esp,0xc

c0022913: 68 b8 f9 02 c0 push 0xc002f9b8

c0022918: 68 83 ed 02 c0 push 0xc002ed83

c002291d: 68 08 d8 02 c0 push 0xc002d808

c0022922: 68 ec 00 00 00 push 0xec

c0022927: 68 3b f9 02 c0 push 0xc002f93b

c002292c: e8 0c 50 00 00 call c002793d <debug\_panic>

c0022931: c7 03 00 00 00 00 mov DWORD PTR [ebx],0x0

c0022937: 83 ec 0c sub esp,0xc

c002293a: 8d 43 18 lea eax,[ebx+0x18]

c002293d: 50 push eax

c002293e: e8 62 55 00 00 call c0027ea5 <list\_remove>

c0022943: 83 c3 04 add ebx,0x4

c0022946: 89 1c 24 mov DWORD PTR [esp],ebx

c0022949: e8 9d fc ff ff call c00225eb <sema\_up>

c002294e: 83 c4 18 add esp,0x18

c0022951: 5b pop ebx

c0022952: c3 ret

c0022953 <cond\_init>:

c0022953: 83 ec 0c sub esp,0xc

c0022956: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002295a: 85 c0 test eax,eax

c002295c: 75 21 jne c002297f <cond\_init+0x2c>

c002295e: 83 ec 0c sub esp,0xc

c0022961: 68 84 f9 02 c0 push 0xc002f984

c0022966: 68 83 ed 02 c0 push 0xc002ed83

c002296b: 68 e0 d7 02 c0 push 0xc002d7e0

c0022970: 68 0b 01 00 00 push 0x10b

c0022975: 68 3b f9 02 c0 push 0xc002f93b

c002297a: e8 be 4f 00 00 call c002793d <debug\_panic>

c002297f: 83 ec 0c sub esp,0xc

c0022982: 50 push eax

c0022983: e8 5c 50 00 00 call c00279e4 <list\_init>

c0022988: 83 c4 1c add esp,0x1c

c002298b: c3 ret

c002298c <cond\_wait>:

c002298c: 55 push ebp

c002298d: 57 push edi

c002298e: 56 push esi

c002298f: 53 push ebx

c0022990: 83 ec 2c sub esp,0x2c

c0022993: 8b 74 24 40 mov esi,DWORD PTR [esp+0x40]

c0022997: 8b 5c 24 44 mov ebx,DWORD PTR [esp+0x44]

c002299b: 85 f6 test esi,esi

c002299d: 75 21 jne c00229c0 <cond\_wait+0x34>

c002299f: 83 ec 0c sub esp,0xc

c00229a2: 68 84 f9 02 c0 push 0xc002f984

c00229a7: 68 83 ed 02 c0 push 0xc002ed83

c00229ac: 68 d4 d7 02 c0 push 0xc002d7d4

c00229b1: 68 29 01 00 00 push 0x129

c00229b6: 68 3b f9 02 c0 push 0xc002f93b

c00229bb: e8 7d 4f 00 00 call c002793d <debug\_panic>

c00229c0: 85 db test ebx,ebx

c00229c2: 75 21 jne c00229e5 <cond\_wait+0x59>

c00229c4: 83 ec 0c sub esp,0xc

c00229c7: 68 77 f9 02 c0 push 0xc002f977

c00229cc: 68 83 ed 02 c0 push 0xc002ed83

c00229d1: 68 d4 d7 02 c0 push 0xc002d7d4

c00229d6: 68 2a 01 00 00 push 0x12a

c00229db: 68 3b f9 02 c0 push 0xc002f93b

c00229e0: e8 58 4f 00 00 call c002793d <debug\_panic>

c00229e5: e8 d7 ec ff ff call c00216c1 <intr\_context>

c00229ea: 84 c0 test al,al

c00229ec: 74 21 je c0022a0f <cond\_wait+0x83>

c00229ee: 83 ec 0c sub esp,0xc

c00229f1: 68 c1 f4 02 c0 push 0xc002f4c1

c00229f6: 68 83 ed 02 c0 push 0xc002ed83

c00229fb: 68 d4 d7 02 c0 push 0xc002d7d4

c0022a00: 68 2b 01 00 00 push 0x12b

c0022a05: 68 3b f9 02 c0 push 0xc002f93b

c0022a0a: e8 2e 4f 00 00 call c002793d <debug\_panic>

c0022a0f: 83 ec 0c sub esp,0xc

c0022a12: 53 push ebx

c0022a13: e8 2d fd ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c0022a18: 83 c4 10 add esp,0x10

c0022a1b: 84 c0 test al,al

c0022a1d: 75 21 jne c0022a40 <cond\_wait+0xb4>

c0022a1f: 83 ec 0c sub esp,0xc

c0022a22: 68 b8 f9 02 c0 push 0xc002f9b8

c0022a27: 68 83 ed 02 c0 push 0xc002ed83

c0022a2c: 68 d4 d7 02 c0 push 0xc002d7d4

c0022a31: 68 2c 01 00 00 push 0x12c

c0022a36: 68 3b f9 02 c0 push 0xc002f93b

c0022a3b: e8 fd 4e 00 00 call c002793d <debug\_panic>

c0022a40: 83 ec 08 sub esp,0x8

c0022a43: 6a 00 push 0x0

c0022a45: 8d 6c 24 10 lea ebp,[esp+0x10]

c0022a49: 8d 7c 24 18 lea edi,[esp+0x18]

c0022a4d: 57 push edi

c0022a4e: e8 6e fa ff ff call c00224c1 <sema\_init>

c0022a53: 83 c4 08 add esp,0x8

c0022a56: 55 push ebp

c0022a57: 56 push esi

c0022a58: e8 2b 54 00 00 call c0027e88 <list\_push\_back>

c0022a5d: 89 1c 24 mov DWORD PTR [esp],ebx

c0022a60: e8 6e fe ff ff call c00228d3 <lock\_release>

c0022a65: 89 3c 24 mov DWORD PTR [esp],edi

c0022a68: e8 93 fa ff ff call c0022500 <sema\_down>

c0022a6d: 89 1c 24 mov DWORD PTR [esp],ebx

c0022a70: e8 0e fd ff ff call c0022783 <lock\_acquire>

c0022a75: 83 c4 3c add esp,0x3c

c0022a78: 5b pop ebx

c0022a79: 5e pop esi

c0022a7a: 5f pop edi

c0022a7b: 5d pop ebp

c0022a7c: c3 ret

c0022a7d <cond\_signal>:

c0022a7d: 56 push esi

c0022a7e: 53 push ebx

c0022a7f: 83 ec 04 sub esp,0x4

c0022a82: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0022a86: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0022a8a: 85 db test ebx,ebx

c0022a8c: 75 21 jne c0022aaf <cond\_signal+0x32>

c0022a8e: 83 ec 0c sub esp,0xc

c0022a91: 68 84 f9 02 c0 push 0xc002f984

c0022a96: 68 83 ed 02 c0 push 0xc002ed83

c0022a9b: 68 c8 d7 02 c0 push 0xc002d7c8

c0022aa0: 68 3f 01 00 00 push 0x13f

c0022aa5: 68 3b f9 02 c0 push 0xc002f93b

c0022aaa: e8 8e 4e 00 00 call c002793d <debug\_panic>

c0022aaf: 85 f6 test esi,esi

c0022ab1: 75 21 jne c0022ad4 <cond\_signal+0x57>

c0022ab3: 83 ec 0c sub esp,0xc

c0022ab6: 68 77 f9 02 c0 push 0xc002f977

c0022abb: 68 83 ed 02 c0 push 0xc002ed83

c0022ac0: 68 c8 d7 02 c0 push 0xc002d7c8

c0022ac5: 68 40 01 00 00 push 0x140

c0022aca: 68 3b f9 02 c0 push 0xc002f93b

c0022acf: e8 69 4e 00 00 call c002793d <debug\_panic>

c0022ad4: e8 e8 eb ff ff call c00216c1 <intr\_context>

c0022ad9: 84 c0 test al,al

c0022adb: 74 21 je c0022afe <cond\_signal+0x81>

c0022add: 83 ec 0c sub esp,0xc

c0022ae0: 68 c1 f4 02 c0 push 0xc002f4c1

c0022ae5: 68 83 ed 02 c0 push 0xc002ed83

c0022aea: 68 c8 d7 02 c0 push 0xc002d7c8

c0022aef: 68 41 01 00 00 push 0x141

c0022af4: 68 3b f9 02 c0 push 0xc002f93b

c0022af9: e8 3f 4e 00 00 call c002793d <debug\_panic>

c0022afe: 83 ec 0c sub esp,0xc

c0022b01: 56 push esi

c0022b02: e8 3e fc ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c0022b07: 83 c4 10 add esp,0x10

c0022b0a: 84 c0 test al,al

c0022b0c: 75 21 jne c0022b2f <cond\_signal+0xb2>

c0022b0e: 83 ec 0c sub esp,0xc

c0022b11: 68 b8 f9 02 c0 push 0xc002f9b8

c0022b16: 68 83 ed 02 c0 push 0xc002ed83

c0022b1b: 68 c8 d7 02 c0 push 0xc002d7c8

c0022b20: 68 42 01 00 00 push 0x142

c0022b25: 68 3b f9 02 c0 push 0xc002f93b

c0022b2a: e8 0e 4e 00 00 call c002793d <debug\_panic>

c0022b2f: 83 ec 0c sub esp,0xc

c0022b32: 53 push ebx

c0022b33: e8 fa 53 00 00 call c0027f32 <list\_empty>

c0022b38: 83 c4 10 add esp,0x10

c0022b3b: 84 c0 test al,al

c0022b3d: 75 17 jne c0022b56 <cond\_signal+0xd9>

c0022b3f: 83 ec 0c sub esp,0xc

c0022b42: 53 push ebx

c0022b43: e8 4c 54 00 00 call c0027f94 <list\_pop\_front>

c0022b48: 83 c0 08 add eax,0x8

c0022b4b: 89 04 24 mov DWORD PTR [esp],eax

c0022b4e: e8 98 fa ff ff call c00225eb <sema\_up>

c0022b53: 83 c4 10 add esp,0x10

c0022b56: 83 c4 04 add esp,0x4

c0022b59: 5b pop ebx

c0022b5a: 5e pop esi

c0022b5b: c3 ret

c0022b5c <cond\_broadcast>:

c0022b5c: 56 push esi

c0022b5d: 53 push ebx

c0022b5e: 83 ec 04 sub esp,0x4

c0022b61: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0022b65: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0022b69: 85 db test ebx,ebx

c0022b6b: 75 21 jne c0022b8e <cond\_broadcast+0x32>

c0022b6d: 83 ec 0c sub esp,0xc

c0022b70: 68 84 f9 02 c0 push 0xc002f984

c0022b75: 68 83 ed 02 c0 push 0xc002ed83

c0022b7a: 68 b8 d7 02 c0 push 0xc002d7b8

c0022b7f: 68 52 01 00 00 push 0x152

c0022b84: 68 3b f9 02 c0 push 0xc002f93b

c0022b89: e8 af 4d 00 00 call c002793d <debug\_panic>

c0022b8e: 85 f6 test esi,esi

c0022b90: 75 2e jne c0022bc0 <cond\_broadcast+0x64>

c0022b92: 83 ec 0c sub esp,0xc

c0022b95: 68 77 f9 02 c0 push 0xc002f977

c0022b9a: 68 83 ed 02 c0 push 0xc002ed83

c0022b9f: 68 b8 d7 02 c0 push 0xc002d7b8

c0022ba4: 68 53 01 00 00 push 0x153

c0022ba9: 68 3b f9 02 c0 push 0xc002f93b

c0022bae: e8 8a 4d 00 00 call c002793d <debug\_panic>

c0022bb3: 83 ec 08 sub esp,0x8

c0022bb6: 56 push esi

c0022bb7: 53 push ebx

c0022bb8: e8 c0 fe ff ff call c0022a7d <cond\_signal>

c0022bbd: 83 c4 10 add esp,0x10

c0022bc0: 83 ec 0c sub esp,0xc

c0022bc3: 53 push ebx

c0022bc4: e8 69 53 00 00 call c0027f32 <list\_empty>

c0022bc9: 83 c4 10 add esp,0x10

c0022bcc: 84 c0 test al,al

c0022bce: 74 e3 je c0022bb3 <cond\_broadcast+0x57>

c0022bd0: 83 c4 04 add esp,0x4

c0022bd3: 5b pop ebx

c0022bd4: 5e pop esi

c0022bd5: c3 ret

c0022bd6 <init\_pool>:

c0022bd6: 55 push ebp

c0022bd7: 57 push edi

c0022bd8: 56 push esi

c0022bd9: 53 push ebx

c0022bda: 83 ec 18 sub esp,0x18

c0022bdd: 89 c7 mov edi,eax

c0022bdf: 89 d5 mov ebp,edx

c0022be1: 89 ce mov esi,ecx

c0022be3: 51 push ecx

c0022be4: e8 8a 59 00 00 call c0028573 <bitmap\_buf\_size>

c0022be9: 8d 98 ff 0f 00 00 lea ebx,[eax+0xfff]

c0022bef: c1 eb 0c shr ebx,0xc

c0022bf2: 83 c4 10 add esp,0x10

c0022bf5: 39 de cmp esi,ebx

c0022bf7: 73 20 jae c0022c19 <init\_pool+0x43>

c0022bf9: 83 ec 0c sub esp,0xc

c0022bfc: ff 74 24 2c push DWORD PTR [esp+0x2c]

c0022c00: 68 dc f9 02 c0 push 0xc002f9dc

c0022c05: 68 a4 d8 02 c0 push 0xc002d8a4

c0022c0a: 68 a1 00 00 00 push 0xa1

c0022c0f: 68 30 fa 02 c0 push 0xc002fa30

c0022c14: e8 24 4d 00 00 call c002793d <debug\_panic>

c0022c19: 29 de sub esi,ebx

c0022c1b: 83 ec 04 sub esp,0x4

c0022c1e: ff 74 24 24 push DWORD PTR [esp+0x24]

c0022c22: 56 push esi

c0022c23: 68 47 fa 02 c0 push 0xc002fa47

c0022c28: e8 98 30 00 00 call c0025cc5 <printf>

c0022c2d: 89 3c 24 mov DWORD PTR [esp],edi

c0022c30: e8 cc fa ff ff call c0022701 <lock\_init>

c0022c35: c1 e3 0c shl ebx,0xc

c0022c38: 83 c4 0c add esp,0xc

c0022c3b: 53 push ebx

c0022c3c: 55 push ebp

c0022c3d: 56 push esi

c0022c3e: e8 15 5c 00 00 call c0028858 <bitmap\_create\_in\_buf>

c0022c43: 89 47 20 mov DWORD PTR [edi+0x20],eax

c0022c46: 01 eb add ebx,ebp

c0022c48: 89 5f 24 mov DWORD PTR [edi+0x24],ebx

c0022c4b: 83 c4 1c add esp,0x1c

c0022c4e: 5b pop ebx

c0022c4f: 5e pop esi

c0022c50: 5f pop edi

c0022c51: 5d pop ebp

c0022c52: c3 ret

c0022c53 <palloc\_init>:

c0022c53: 56 push esi

c0022c54: 53 push ebx

c0022c55: 83 ec 04 sub esp,0x4

c0022c58: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c0022c5c: 8b 1d 7e 01 02 c0 mov ebx,DWORD PTR ds:0xc002017e

c0022c62: c1 e3 0c shl ebx,0xc

c0022c65: 81 fb ff ff ff bf cmp ebx,0xbfffffff

c0022c6b: 76 1e jbe c0022c8b <palloc\_init+0x38>

c0022c6d: 83 ec 0c sub esp,0xc

c0022c70: 68 63 fa 02 c0 push 0xc002fa63

c0022c75: 68 83 ed 02 c0 push 0xc002ed83

c0022c7a: 68 b0 d8 02 c0 push 0xc002d8b0

c0022c7f: 6a 4a push 0x4a

c0022c81: 68 c6 ed 02 c0 push 0xc002edc6

c0022c86: e8 b2 4c 00 00 call c002793d <debug\_panic>

c0022c8b: 8d 83 ff 0f f0 ff lea eax,[ebx-0xff001]

c0022c91: 81 eb 00 00 10 00 sub ebx,0x100000

c0022c97: 0f 48 d8 cmovs ebx,eax

c0022c9a: c1 fb 0c sar ebx,0xc

c0022c9d: 89 de mov esi,ebx

c0022c9f: d1 ee shr esi,1

c0022ca1: 39 d6 cmp esi,edx

c0022ca3: 0f 47 f2 cmova esi,edx

c0022ca6: 29 f3 sub ebx,esi

c0022ca8: 83 ec 0c sub esp,0xc

c0022cab: 68 7e fa 02 c0 push 0xc002fa7e

c0022cb0: 89 d9 mov ecx,ebx

c0022cb2: ba 00 00 10 c0 mov edx,0xc0100000

c0022cb7: b8 40 b1 03 c0 mov eax,0xc003b140

c0022cbc: e8 15 ff ff ff call c0022bd6 <init\_pool>

c0022cc1: c1 e3 0c shl ebx,0xc

c0022cc4: 8d 93 00 00 10 c0 lea edx,[ebx-0x3ff00000]

c0022cca: c7 04 24 8a fa 02 c0 mov DWORD PTR [esp],0xc002fa8a

c0022cd1: 89 f1 mov ecx,esi

c0022cd3: b8 00 b1 03 c0 mov eax,0xc003b100

c0022cd8: e8 f9 fe ff ff call c0022bd6 <init\_pool>

c0022cdd: 83 c4 14 add esp,0x14

c0022ce0: 5b pop ebx

c0022ce1: 5e pop esi

c0022ce2: c3 ret

c0022ce3 <palloc\_get\_multiple>:

c0022ce3: 55 push ebp

c0022ce4: 57 push edi

c0022ce5: 56 push esi

c0022ce6: 53 push ebx

c0022ce7: 83 ec 0c sub esp,0xc

c0022cea: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c0022cee: 8b 6c 24 24 mov ebp,DWORD PTR [esp+0x24]

c0022cf2: 89 f8 mov eax,edi

c0022cf4: 83 e0 04 and eax,0x4

c0022cf7: b8 40 b1 03 c0 mov eax,0xc003b140

c0022cfc: bb 00 b1 03 c0 mov ebx,0xc003b100

c0022d01: 0f 44 d8 cmove ebx,eax

c0022d04: 85 ed test ebp,ebp

c0022d06: 74 6f je c0022d77 <palloc\_get\_multiple+0x9

4>

c0022d08: 83 ec 0c sub esp,0xc

c0022d0b: 53 push ebx

c0022d0c: e8 72 fa ff ff call c0022783 <lock\_acquire>

c0022d11: 6a 00 push 0x0

c0022d13: 55 push ebp

c0022d14: 6a 00 push 0x0

c0022d16: ff 73 20 push DWORD PTR [ebx+0x20]

c0022d19: e8 16 5e 00 00 call c0028b34 <bitmap\_scan\_and\_flip>

c0022d1e: 89 c6 mov esi,eax

c0022d20: 83 c4 14 add esp,0x14

c0022d23: 53 push ebx

c0022d24: e8 aa fb ff ff call c00228d3 <lock\_release>

c0022d29: 83 c4 10 add esp,0x10

c0022d2c: 83 fe ff cmp esi,0xffffffff

c0022d2f: 74 28 je c0022d59 <palloc\_get\_multiple+0x7

6>

c0022d31: c1 e6 0c shl esi,0xc

c0022d34: 03 73 24 add esi,DWORD PTR [ebx+0x24]

c0022d37: 74 20 je c0022d59 <palloc\_get\_multiple+0x7

6>

c0022d39: 89 f0 mov eax,esi

c0022d3b: f7 c7 02 00 00 00 test edi,0x2

c0022d41: 74 40 je c0022d83 <palloc\_get\_multiple+0xa

0>

c0022d43: c1 e5 0c shl ebp,0xc

c0022d46: 83 ec 04 sub esp,0x4

c0022d49: 55 push ebp

c0022d4a: 6a 00 push 0x0

c0022d4c: 56 push esi

c0022d4d: e8 c2 41 00 00 call c0026f14 <memset>

c0022d52: 83 c4 10 add esp,0x10

c0022d55: 89 f0 mov eax,esi

c0022d57: eb 2a jmp c0022d83 <palloc\_get\_multiple+0xa

0>

c0022d59: f7 c7 01 00 00 00 test edi,0x1

c0022d5f: 74 1d je c0022d7e <palloc\_get\_multiple+0x9

b>

c0022d61: 68 94 fa 02 c0 push 0xc002fa94

c0022d66: 68 90 d8 02 c0 push 0xc002d890

c0022d6b: 6a 61 push 0x61

c0022d6d: 68 30 fa 02 c0 push 0xc002fa30

c0022d72: e8 c6 4b 00 00 call c002793d <debug\_panic>

c0022d77: b8 00 00 00 00 mov eax,0x0

c0022d7c: eb 05 jmp c0022d83 <palloc\_get\_multiple+0xa

0>

c0022d7e: b8 00 00 00 00 mov eax,0x0

c0022d83: 83 c4 0c add esp,0xc

c0022d86: 5b pop ebx

c0022d87: 5e pop esi

c0022d88: 5f pop edi

c0022d89: 5d pop ebp

c0022d8a: c3 ret

c0022d8b <palloc\_get\_page>:

c0022d8b: 83 ec 14 sub esp,0x14

c0022d8e: 6a 01 push 0x1

c0022d90: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0022d94: e8 4a ff ff ff call c0022ce3 <palloc\_get\_multiple>

c0022d99: 83 c4 1c add esp,0x1c

c0022d9c: c3 ret

c0022d9d <palloc\_free\_multiple>:

c0022d9d: 55 push ebp

c0022d9e: 57 push edi

c0022d9f: 56 push esi

c0022da0: 53 push ebx

c0022da1: 83 ec 0c sub esp,0xc

c0022da4: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c0022da8: f7 c3 ff 0f 00 00 test ebx,0xfff

c0022dae: 74 1e je c0022dce <palloc\_free\_multiple+0x

31>

c0022db0: 83 ec 0c sub esp,0xc

c0022db3: 68 ad fa 02 c0 push 0xc002faad

c0022db8: 68 83 ed 02 c0 push 0xc002ed83

c0022dbd: 68 78 d8 02 c0 push 0xc002d878

c0022dc2: 6a 7b push 0x7b

c0022dc4: 68 30 fa 02 c0 push 0xc002fa30

c0022dc9: e8 6f 4b 00 00 call c002793d <debug\_panic>

c0022dce: 85 db test ebx,ebx

c0022dd0: 0f 84 e3 00 00 00 je c0022eb9 <palloc\_free\_multiple+0x

11c>

c0022dd6: 83 7c 24 24 00 cmp DWORD PTR [esp+0x24],0x0

c0022ddb: 0f 84 d8 00 00 00 je c0022eb9 <palloc\_free\_multiple+0x

11c>

c0022de1: 89 de mov esi,ebx

c0022de3: c1 ee 0c shr esi,0xc

c0022de6: 8b 3d 64 b1 03 c0 mov edi,DWORD PTR ds:0xc003b164

c0022dec: c1 ef 0c shr edi,0xc

c0022def: 83 ec 0c sub esp,0xc

c0022df2: ff 35 60 b1 03 c0 push DWORD PTR ds:0xc003b160

c0022df8: e8 af 57 00 00 call c00285ac <bitmap\_size>

c0022dfd: 01 f8 add eax,edi

c0022dff: 83 c4 10 add esp,0x10

c0022e02: 39 c6 cmp esi,eax

c0022e04: 73 09 jae c0022e0f <palloc\_free\_multiple+0x

72>

c0022e06: bd 40 b1 03 c0 mov ebp,0xc003b140

c0022e0b: 39 fe cmp esi,edi

c0022e0d: 73 42 jae c0022e51 <palloc\_free\_multiple+0x

b4>

c0022e0f: 8b 3d 24 b1 03 c0 mov edi,DWORD PTR ds:0xc003b124

c0022e15: c1 ef 0c shr edi,0xc

c0022e18: 83 ec 0c sub esp,0xc

c0022e1b: ff 35 20 b1 03 c0 push DWORD PTR ds:0xc003b120

c0022e21: e8 86 57 00 00 call c00285ac <bitmap\_size>

c0022e26: 01 f8 add eax,edi

c0022e28: 83 c4 10 add esp,0x10

c0022e2b: 39 c6 cmp esi,eax

c0022e2d: 73 04 jae c0022e33 <palloc\_free\_multiple+0x

96>

c0022e2f: 39 fe cmp esi,edi

c0022e31: 73 19 jae c0022e4c <palloc\_free\_multiple+0x

af>

c0022e33: 68 64 f5 02 c0 push 0xc002f564

c0022e38: 68 78 d8 02 c0 push 0xc002d878

c0022e3d: 68 84 00 00 00 push 0x84

c0022e42: 68 30 fa 02 c0 push 0xc002fa30

c0022e47: e8 f1 4a 00 00 call c002793d <debug\_panic>

c0022e4c: bd 00 b1 03 c0 mov ebp,0xc003b100

c0022e51: 8b 45 24 mov eax,DWORD PTR [ebp+0x24]

c0022e54: c1 e8 0c shr eax,0xc

c0022e57: 29 c6 sub esi,eax

c0022e59: 83 ec 04 sub esp,0x4

c0022e5c: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0022e60: c1 e0 0c shl eax,0xc

c0022e63: 50 push eax

c0022e64: 68 cc 00 00 00 push 0xcc

c0022e69: 53 push ebx

c0022e6a: e8 a5 40 00 00 call c0026f14 <memset>

c0022e6f: 83 c4 0c add esp,0xc

c0022e72: ff 74 24 28 push DWORD PTR [esp+0x28]

c0022e76: 56 push esi

c0022e77: ff 75 20 push DWORD PTR [ebp+0x20]

c0022e7a: e8 ea 5b 00 00 call c0028a69 <bitmap\_all>

c0022e7f: 83 c4 10 add esp,0x10

c0022e82: 84 c0 test al,al

c0022e84: 75 21 jne c0022ea7 <palloc\_free\_multiple+0x

10a>

c0022e86: 83 ec 0c sub esp,0xc

c0022e89: 68 00 fa 02 c0 push 0xc002fa00

c0022e8e: 68 83 ed 02 c0 push 0xc002ed83

c0022e93: 68 78 d8 02 c0 push 0xc002d878

c0022e98: 68 8c 00 00 00 push 0x8c

c0022e9d: 68 30 fa 02 c0 push 0xc002fa30

c0022ea2: e8 96 4a 00 00 call c002793d <debug\_panic>

c0022ea7: 6a 00 push 0x0

c0022ea9: ff 74 24 28 push DWORD PTR [esp+0x28]

c0022ead: 56 push esi

c0022eae: ff 75 20 push DWORD PTR [ebp+0x20]

c0022eb1: e8 43 58 00 00 call c00286f9 <bitmap\_set\_multiple>

c0022eb6: 83 c4 10 add esp,0x10

c0022eb9: 83 c4 0c add esp,0xc

c0022ebc: 5b pop ebx

c0022ebd: 5e pop esi

c0022ebe: 5f pop edi

c0022ebf: 5d pop ebp

c0022ec0: c3 ret

c0022ec1 <palloc\_free\_page>:

c0022ec1: 83 ec 14 sub esp,0x14

c0022ec4: 6a 01 push 0x1

c0022ec6: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0022eca: e8 ce fe ff ff call c0022d9d <palloc\_free\_multiple>

c0022ecf: 83 c4 1c add esp,0x1c

c0022ed2: c3 ret

c0022ed3 <arena\_to\_block>:

c0022ed3: 83 ec 0c sub esp,0xc

c0022ed6: 85 c0 test eax,eax

c0022ed8: 75 21 jne c0022efb <arena\_to\_block+0x28>

c0022eda: 83 ec 0c sub esp,0xc

c0022edd: 68 31 f9 02 c0 push 0xc002f931

c0022ee2: 68 83 ed 02 c0 push 0xc002ed83

c0022ee7: 68 d0 d8 02 c0 push 0xc002d8d0

c0022eec: 68 20 01 00 00 push 0x120

c0022ef1: 68 c1 fa 02 c0 push 0xc002fac1

c0022ef6: e8 42 4a 00 00 call c002793d <debug\_panic>

c0022efb: 81 38 ed 8e 54 9a cmp DWORD PTR [eax],0x9a548eed

c0022f01: 74 21 je c0022f24 <arena\_to\_block+0x51>

c0022f03: 83 ec 0c sub esp,0xc

c0022f06: 68 d8 fa 02 c0 push 0xc002fad8

c0022f0b: 68 83 ed 02 c0 push 0xc002ed83

c0022f10: 68 d0 d8 02 c0 push 0xc002d8d0

c0022f15: 68 21 01 00 00 push 0x121

c0022f1a: 68 c1 fa 02 c0 push 0xc002fac1

c0022f1f: e8 19 4a 00 00 call c002793d <debug\_panic>

c0022f24: 8b 48 04 mov ecx,DWORD PTR [eax+0x4]

c0022f27: 39 51 04 cmp DWORD PTR [ecx+0x4],edx

c0022f2a: 77 21 ja c0022f4d <arena\_to\_block+0x7a>

c0022f2c: 83 ec 0c sub esp,0xc

c0022f2f: 68 f0 fa 02 c0 push 0xc002faf0

c0022f34: 68 83 ed 02 c0 push 0xc002ed83

c0022f39: 68 d0 d8 02 c0 push 0xc002d8d0

c0022f3e: 68 22 01 00 00 push 0x122

c0022f43: 68 c1 fa 02 c0 push 0xc002fac1

c0022f48: e8 f0 49 00 00 call c002793d <debug\_panic>

c0022f4d: 0f af 11 imul edx,DWORD PTR [ecx]

c0022f50: 8d 44 10 0c lea eax,[eax+edx\*1+0xc]

c0022f54: 83 c4 0c add esp,0xc

c0022f57: c3 ret

c0022f58 <block\_to\_arena>:

c0022f58: 53 push ebx

c0022f59: 83 ec 08 sub esp,0x8

c0022f5c: 89 c1 mov ecx,eax

c0022f5e: 81 e1 00 f0 ff ff and ecx,0xfffff000

c0022f64: 75 21 jne c0022f87 <block\_to\_arena+0x2f>

c0022f66: 83 ec 0c sub esp,0xc

c0022f69: 68 31 f9 02 c0 push 0xc002f931

c0022f6e: 68 83 ed 02 c0 push 0xc002ed83

c0022f73: 68 c0 d8 02 c0 push 0xc002d8c0

c0022f78: 68 11 01 00 00 push 0x111

c0022f7d: 68 c1 fa 02 c0 push 0xc002fac1

c0022f82: e8 b6 49 00 00 call c002793d <debug\_panic>

c0022f87: 81 39 ed 8e 54 9a cmp DWORD PTR [ecx],0x9a548eed

c0022f8d: 74 21 je c0022fb0 <block\_to\_arena+0x58>

c0022f8f: 83 ec 0c sub esp,0xc

c0022f92: 68 d8 fa 02 c0 push 0xc002fad8

c0022f97: 68 83 ed 02 c0 push 0xc002ed83

c0022f9c: 68 c0 d8 02 c0 push 0xc002d8c0

c0022fa1: 68 12 01 00 00 push 0x112

c0022fa6: 68 c1 fa 02 c0 push 0xc002fac1

c0022fab: e8 8d 49 00 00 call c002793d <debug\_panic>

c0022fb0: 8b 59 04 mov ebx,DWORD PTR [ecx+0x4]

c0022fb3: 85 db test ebx,ebx

c0022fb5: 74 34 je c0022feb <block\_to\_arena+0x93>

c0022fb7: 25 ff 0f 00 00 and eax,0xfff

c0022fbc: 83 e8 0c sub eax,0xc

c0022fbf: ba 00 00 00 00 mov edx,0x0

c0022fc4: f7 33 div DWORD PTR [ebx]

c0022fc6: 85 d2 test edx,edx

c0022fc8: 74 4c je c0023016 <block\_to\_arena+0xbe>

c0022fca: 83 ec 0c sub esp,0xc

c0022fcd: 68 10 fb 02 c0 push 0xc002fb10

c0022fd2: 68 83 ed 02 c0 push 0xc002ed83

c0022fd7: 68 c0 d8 02 c0 push 0xc002d8c0

c0022fdc: 68 16 01 00 00 push 0x116

c0022fe1: 68 c1 fa 02 c0 push 0xc002fac1

c0022fe6: e8 52 49 00 00 call c002793d <debug\_panic>

c0022feb: 25 ff 0f 00 00 and eax,0xfff

c0022ff0: 83 f8 0c cmp eax,0xc

c0022ff3: 74 21 je c0023016 <block\_to\_arena+0xbe>

c0022ff5: 83 ec 0c sub esp,0xc

c0022ff8: 68 58 fb 02 c0 push 0xc002fb58

c0022ffd: 68 83 ed 02 c0 push 0xc002ed83

c0023002: 68 c0 d8 02 c0 push 0xc002d8c0

c0023007: 68 17 01 00 00 push 0x117

c002300c: 68 c1 fa 02 c0 push 0xc002fac1

c0023011: e8 27 49 00 00 call c002793d <debug\_panic>

c0023016: 89 c8 mov eax,ecx

c0023018: 83 c4 08 add esp,0x8

c002301b: 5b pop ebx

c002301c: c3 ret

c002301d <malloc\_init>:

c002301d: 57 push edi

c002301e: 56 push esi

c002301f: 53 push ebx

c0023020: 8b 1d 80 b1 03 c0 mov ebx,DWORD PTR ds:0xc003b180

c0023026: 8d 43 01 lea eax,[ebx+0x1]

c0023029: a3 80 b1 03 c0 mov ds:0xc003b180,eax

c002302e: 83 f8 0a cmp eax,0xa

c0023031: 76 77 jbe c00230aa <malloc\_init+0x8d>

c0023033: eb 13 jmp c0023048 <malloc\_init+0x2b>

c0023035: 8b 1d 80 b1 03 c0 mov ebx,DWORD PTR ds:0xc003b180

c002303b: 8d 43 01 lea eax,[ebx+0x1]

c002303e: a3 80 b1 03 c0 mov ds:0xc003b180,eax

c0023043: 83 f8 0a cmp eax,0xa

c0023046: 76 1e jbe c0023066 <malloc\_init+0x49>

c0023048: 83 ec 0c sub esp,0xc

c002304b: 68 84 fb 02 c0 push 0xc002fb84

c0023050: 68 83 ed 02 c0 push 0xc002ed83

c0023055: 68 e0 d8 02 c0 push 0xc002d8e0

c002305a: 6a 4f push 0x4f

c002305c: 68 c1 fa 02 c0 push 0xc002fac1

c0023061: e8 d7 48 00 00 call c002793d <debug\_panic>

c0023066: 6b db 38 imul ebx,ebx,0x38

c0023069: 89 b3 a0 b1 03 c0 mov DWORD PTR [ebx-0x3ffc4e60],esi

c002306f: 89 f8 mov eax,edi

c0023071: ba 00 00 00 00 mov edx,0x0

c0023076: f7 f6 div esi

c0023078: 89 83 a4 b1 03 c0 mov DWORD PTR [ebx-0x3ffc4e5c],eax

c002307e: 83 ec 0c sub esp,0xc

c0023081: 8d 8b a8 b1 03 c0 lea ecx,[ebx-0x3ffc4e58]

c0023087: 51 push ecx

c0023088: e8 57 49 00 00 call c00279e4 <list\_init>

c002308d: 81 c3 b8 b1 03 c0 add ebx,0xc003b1b8

c0023093: 89 1c 24 mov DWORD PTR [esp],ebx

c0023096: e8 66 f6 ff ff call c0022701 <lock\_init>

c002309b: 01 f6 add esi,esi

c002309d: 83 c4 10 add esp,0x10

c00230a0: 81 fe ff 07 00 00 cmp esi,0x7ff

c00230a6: 76 8d jbe c0023035 <malloc\_init+0x18>

c00230a8: eb 46 jmp c00230f0 <malloc\_init+0xd3>

c00230aa: 6b db 38 imul ebx,ebx,0x38

c00230ad: c7 83 a0 b1 03 c0 10 mov DWORD PTR [ebx-0x3ffc4e60],0x10

c00230b4: 00 00 00

c00230b7: c7 83 a4 b1 03 c0 ff mov DWORD PTR [ebx-0x3ffc4e5c],0xff

c00230be: 00 00 00

c00230c1: 83 ec 0c sub esp,0xc

c00230c4: 8d 83 a8 b1 03 c0 lea eax,[ebx-0x3ffc4e58]

c00230ca: 50 push eax

c00230cb: e8 14 49 00 00 call c00279e4 <list\_init>

c00230d0: 81 c3 b8 b1 03 c0 add ebx,0xc003b1b8

c00230d6: 89 1c 24 mov DWORD PTR [esp],ebx

c00230d9: e8 23 f6 ff ff call c0022701 <lock\_init>

c00230de: 83 c4 10 add esp,0x10

c00230e1: be 20 00 00 00 mov esi,0x20

c00230e6: bf f4 0f 00 00 mov edi,0xff4

c00230eb: e9 45 ff ff ff jmp c0023035 <malloc\_init+0x18>

c00230f0: 5b pop ebx

c00230f1: 5e pop esi

c00230f2: 5f pop edi

c00230f3: c3 ret

c00230f4 <malloc>:

c00230f4: 55 push ebp

c00230f5: 57 push edi

c00230f6: 56 push esi

c00230f7: 53 push ebx

c00230f8: 83 ec 1c sub esp,0x1c

c00230fb: 8b 54 24 30 mov edx,DWORD PTR [esp+0x30]

c00230ff: 85 d2 test edx,edx

c0023101: 0f 84 20 01 00 00 je c0023227 <malloc+0x133>

c0023107: 6b 05 80 b1 03 c0 38 imul eax,DWORD PTR ds:0xc003b180,0x38

c002310e: 05 a0 b1 03 c0 add eax,0xc003b1a0

c0023113: 3d a0 b1 03 c0 cmp eax,0xc003b1a0

c0023118: 76 1c jbe c0023136 <malloc+0x42>

c002311a: 3b 15 a0 b1 03 c0 cmp edx,DWORD PTR ds:0xc003b1a0

c0023120: 76 1b jbe c002313d <malloc+0x49>

c0023122: bb a0 b1 03 c0 mov ebx,0xc003b1a0

c0023127: eb 04 jmp c002312d <malloc+0x39>

c0023129: 3b 13 cmp edx,DWORD PTR [ebx]

c002312b: 76 15 jbe c0023142 <malloc+0x4e>

c002312d: 83 c3 38 add ebx,0x38

c0023130: 39 c3 cmp ebx,eax

c0023132: 72 f5 jb c0023129 <malloc+0x35>

c0023134: eb 0c jmp c0023142 <malloc+0x4e>

c0023136: bb a0 b1 03 c0 mov ebx,0xc003b1a0

c002313b: eb 05 jmp c0023142 <malloc+0x4e>

c002313d: bb a0 b1 03 c0 mov ebx,0xc003b1a0

c0023142: 39 d8 cmp eax,ebx

c0023144: 75 37 jne c002317d <malloc+0x89>

c0023146: 8d 9a 0b 10 00 00 lea ebx,[edx+0x100b]

c002314c: c1 eb 0c shr ebx,0xc

c002314f: 83 ec 08 sub esp,0x8

c0023152: 53 push ebx

c0023153: 6a 00 push 0x0

c0023155: e8 89 fb ff ff call c0022ce3 <palloc\_get\_multiple>

c002315a: 83 c4 10 add esp,0x10

c002315d: 85 c0 test eax,eax

c002315f: 0f 84 c9 00 00 00 je c002322e <malloc+0x13a>

c0023165: c7 00 ed 8e 54 9a mov DWORD PTR [eax],0x9a548eed

c002316b: c7 40 04 00 00 00 00 mov DWORD PTR [eax+0x4],0x0

c0023172: 89 58 08 mov DWORD PTR [eax+0x8],ebx

c0023175: 83 c0 0c add eax,0xc

c0023178: e9 b6 00 00 00 jmp c0023233 <malloc+0x13f>

c002317d: 8d 43 18 lea eax,[ebx+0x18]

c0023180: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c0023184: 83 ec 0c sub esp,0xc

c0023187: 50 push eax

c0023188: e8 f6 f5 ff ff call c0022783 <lock\_acquire>

c002318d: 8d 7b 08 lea edi,[ebx+0x8]

c0023190: 89 3c 24 mov DWORD PTR [esp],edi

c0023193: e8 9a 4d 00 00 call c0027f32 <list\_empty>

c0023198: 83 c4 10 add esp,0x10

c002319b: 84 c0 test al,al

c002319d: 74 61 je c0023200 <malloc+0x10c>

c002319f: 83 ec 0c sub esp,0xc

c00231a2: 6a 00 push 0x0

c00231a4: e8 e2 fb ff ff call c0022d8b <palloc\_get\_page>

c00231a9: 89 c5 mov ebp,eax

c00231ab: 83 c4 10 add esp,0x10

c00231ae: 85 c0 test eax,eax

c00231b0: 75 16 jne c00231c8 <malloc+0xd4>

c00231b2: 83 ec 0c sub esp,0xc

c00231b5: ff 74 24 18 push DWORD PTR [esp+0x18]

c00231b9: e8 15 f7 ff ff call c00228d3 <lock\_release>

c00231be: 83 c4 10 add esp,0x10

c00231c1: b8 00 00 00 00 mov eax,0x0

c00231c6: eb 6b jmp c0023233 <malloc+0x13f>

c00231c8: c7 00 ed 8e 54 9a mov DWORD PTR [eax],0x9a548eed

c00231ce: 89 58 04 mov DWORD PTR [eax+0x4],ebx

c00231d1: 8b 43 04 mov eax,DWORD PTR [ebx+0x4]

c00231d4: 89 45 08 mov DWORD PTR [ebp+0x8],eax

c00231d7: 83 7b 04 00 cmp DWORD PTR [ebx+0x4],0x0

c00231db: 74 23 je c0023200 <malloc+0x10c>

c00231dd: be 00 00 00 00 mov esi,0x0

c00231e2: 89 f2 mov edx,esi

c00231e4: 89 e8 mov eax,ebp

c00231e6: e8 e8 fc ff ff call c0022ed3 <arena\_to\_block>

c00231eb: 83 ec 08 sub esp,0x8

c00231ee: 50 push eax

c00231ef: 57 push edi

c00231f0: e8 93 4c 00 00 call c0027e88 <list\_push\_back>

c00231f5: 83 c6 01 add esi,0x1

c00231f8: 83 c4 10 add esp,0x10

c00231fb: 39 73 04 cmp DWORD PTR [ebx+0x4],esi

c00231fe: 77 e2 ja c00231e2 <malloc+0xee>

c0023200: 83 ec 0c sub esp,0xc

c0023203: 57 push edi

c0023204: e8 8b 4d 00 00 call c0027f94 <list\_pop\_front>

c0023209: 89 c3 mov ebx,eax

c002320b: e8 48 fd ff ff call c0022f58 <block\_to\_arena>

c0023210: 83 68 08 01 sub DWORD PTR [eax+0x8],0x1

c0023214: 83 c4 04 add esp,0x4

c0023217: ff 74 24 18 push DWORD PTR [esp+0x18]

c002321b: e8 b3 f6 ff ff call c00228d3 <lock\_release>

c0023220: 83 c4 10 add esp,0x10

c0023223: 89 d8 mov eax,ebx

c0023225: eb 0c jmp c0023233 <malloc+0x13f>

c0023227: b8 00 00 00 00 mov eax,0x0

c002322c: eb 05 jmp c0023233 <malloc+0x13f>

c002322e: b8 00 00 00 00 mov eax,0x0

c0023233: 83 c4 1c add esp,0x1c

c0023236: 5b pop ebx

c0023237: 5e pop esi

c0023238: 5f pop edi

c0023239: 5d pop ebp

c002323a: c3 ret

c002323b <calloc>:

c002323b: 56 push esi

c002323c: 53 push ebx

c002323d: 83 ec 04 sub esp,0x4

c0023240: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0023244: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0023248: 89 c3 mov ebx,eax

c002324a: 0f af da imul ebx,edx

c002324d: 39 d8 cmp eax,ebx

c002324f: 77 29 ja c002327a <calloc+0x3f>

c0023251: 39 da cmp edx,ebx

c0023253: 77 25 ja c002327a <calloc+0x3f>

c0023255: 83 ec 0c sub esp,0xc

c0023258: 53 push ebx

c0023259: e8 96 fe ff ff call c00230f4 <malloc>

c002325e: 89 c6 mov esi,eax

c0023260: 83 c4 10 add esp,0x10

c0023263: 85 c0 test eax,eax

c0023265: 74 18 je c002327f <calloc+0x44>

c0023267: 83 ec 04 sub esp,0x4

c002326a: 53 push ebx

c002326b: 6a 00 push 0x0

c002326d: 50 push eax

c002326e: e8 a1 3c 00 00 call c0026f14 <memset>

c0023273: 83 c4 10 add esp,0x10

c0023276: 89 f0 mov eax,esi

c0023278: eb 05 jmp c002327f <calloc+0x44>

c002327a: b8 00 00 00 00 mov eax,0x0

c002327f: 83 c4 04 add esp,0x4

c0023282: 5b pop ebx

c0023283: 5e pop esi

c0023284: c3 ret

c0023285 <free>:

c0023285: 55 push ebp

c0023286: 57 push edi

c0023287: 56 push esi

c0023288: 53 push ebx

c0023289: 83 ec 0c sub esp,0xc

c002328c: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c0023290: 85 db test ebx,ebx

c0023292: 0f 84 c5 00 00 00 je c002335d <free+0xd8>

c0023298: 89 d8 mov eax,ebx

c002329a: e8 b9 fc ff ff call c0022f58 <block\_to\_arena>

c002329f: 89 c7 mov edi,eax

c00232a1: 8b 70 04 mov esi,DWORD PTR [eax+0x4]

c00232a4: 85 f6 test esi,esi

c00232a6: 0f 84 a2 00 00 00 je c002334e <free+0xc9>

c00232ac: 83 ec 04 sub esp,0x4

c00232af: ff 36 push DWORD PTR [esi]

c00232b1: 68 cc 00 00 00 push 0xcc

c00232b6: 53 push ebx

c00232b7: e8 58 3c 00 00 call c0026f14 <memset>

c00232bc: 8d 6e 18 lea ebp,[esi+0x18]

c00232bf: 89 2c 24 mov DWORD PTR [esp],ebp

c00232c2: e8 bc f4 ff ff call c0022783 <lock\_acquire>

c00232c7: 83 c4 08 add esp,0x8

c00232ca: 53 push ebx

c00232cb: 8d 46 08 lea eax,[esi+0x8]

c00232ce: 50 push eax

c00232cf: e8 97 4b 00 00 call c0027e6b <list\_push\_front>

c00232d4: 8b 47 08 mov eax,DWORD PTR [edi+0x8]

c00232d7: 83 c0 01 add eax,0x1

c00232da: 89 47 08 mov DWORD PTR [edi+0x8],eax

c00232dd: 8b 56 04 mov edx,DWORD PTR [esi+0x4]

c00232e0: 83 c4 10 add esp,0x10

c00232e3: 39 d0 cmp eax,edx

c00232e5: 72 59 jb c0023340 <free+0xbb>

c00232e7: 39 d0 cmp eax,edx

c00232e9: 75 0b jne c00232f6 <free+0x71>

c00232eb: bb 00 00 00 00 mov ebx,0x0

c00232f0: 85 c0 test eax,eax

c00232f2: 75 23 jne c0023317 <free+0x92>

c00232f4: eb 3e jmp c0023334 <free+0xaf>

c00232f6: 83 ec 0c sub esp,0xc

c00232f9: 68 b0 fb 02 c0 push 0xc002fbb0

c00232fe: 68 83 ed 02 c0 push 0xc002ed83

c0023303: 68 b8 d8 02 c0 push 0xc002d8b8

c0023308: 68 f6 00 00 00 push 0xf6

c002330d: 68 c1 fa 02 c0 push 0xc002fac1

c0023312: e8 26 46 00 00 call c002793d <debug\_panic>

c0023317: 89 da mov edx,ebx

c0023319: 89 f8 mov eax,edi

c002331b: e8 b3 fb ff ff call c0022ed3 <arena\_to\_block>

c0023320: 83 ec 0c sub esp,0xc

c0023323: 50 push eax

c0023324: e8 7c 4b 00 00 call c0027ea5 <list\_remove>

c0023329: 83 c3 01 add ebx,0x1

c002332c: 83 c4 10 add esp,0x10

c002332f: 39 5e 04 cmp DWORD PTR [esi+0x4],ebx

c0023332: 77 e3 ja c0023317 <free+0x92>

c0023334: 83 ec 0c sub esp,0xc

c0023337: 57 push edi

c0023338: e8 84 fb ff ff call c0022ec1 <palloc\_free\_page>

c002333d: 83 c4 10 add esp,0x10

c0023340: 83 ec 0c sub esp,0xc

c0023343: 55 push ebp

c0023344: e8 8a f5 ff ff call c00228d3 <lock\_release>

c0023349: 83 c4 10 add esp,0x10

c002334c: eb 0f jmp c002335d <free+0xd8>

c002334e: 83 ec 08 sub esp,0x8

c0023351: ff 70 08 push DWORD PTR [eax+0x8]

c0023354: 50 push eax

c0023355: e8 43 fa ff ff call c0022d9d <palloc\_free\_multiple>

c002335a: 83 c4 10 add esp,0x10

c002335d: 83 c4 0c add esp,0xc

c0023360: 5b pop ebx

c0023361: 5e pop esi

c0023362: 5f pop edi

c0023363: 5d pop ebp

c0023364: c3 ret

c0023365 <realloc>:

c0023365: 57 push edi

c0023366: 56 push esi

c0023367: 53 push ebx

c0023368: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c002336c: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0023370: 85 f6 test esi,esi

c0023372: 75 13 jne c0023387 <realloc+0x22>

c0023374: 83 ec 0c sub esp,0xc

c0023377: 57 push edi

c0023378: e8 08 ff ff ff call c0023285 <free>

c002337d: 83 c4 10 add esp,0x10

c0023380: b8 00 00 00 00 mov eax,0x0

c0023385: eb 59 jmp c00233e0 <realloc+0x7b>

c0023387: 83 ec 0c sub esp,0xc

c002338a: 56 push esi

c002338b: e8 64 fd ff ff call c00230f4 <malloc>

c0023390: 89 c3 mov ebx,eax

c0023392: 83 c4 10 add esp,0x10

c0023395: 85 ff test edi,edi

c0023397: 74 45 je c00233de <realloc+0x79>

c0023399: 85 c0 test eax,eax

c002339b: 74 41 je c00233de <realloc+0x79>

c002339d: 89 f8 mov eax,edi

c002339f: e8 b4 fb ff ff call c0022f58 <block\_to\_arena>

c00233a4: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c00233a7: 85 d2 test edx,edx

c00233a9: 74 04 je c00233af <realloc+0x4a>

c00233ab: 8b 02 mov eax,DWORD PTR [edx]

c00233ad: eb 10 jmp c00233bf <realloc+0x5a>

c00233af: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c00233b2: c1 e0 0c shl eax,0xc

c00233b5: 89 fa mov edx,edi

c00233b7: 81 e2 ff 0f 00 00 and edx,0xfff

c00233bd: 29 d0 sub eax,edx

c00233bf: 39 c6 cmp esi,eax

c00233c1: 0f 47 f0 cmova esi,eax

c00233c4: 83 ec 04 sub esp,0x4

c00233c7: 56 push esi

c00233c8: 57 push edi

c00233c9: 53 push ebx

c00233ca: e8 38 36 00 00 call c0026a07 <memcpy>

c00233cf: 89 3c 24 mov DWORD PTR [esp],edi

c00233d2: e8 ae fe ff ff call c0023285 <free>

c00233d7: 83 c4 10 add esp,0x10

c00233da: 89 d8 mov eax,ebx

c00233dc: eb 02 jmp c00233e0 <realloc+0x7b>

c00233de: 89 d8 mov eax,ebx

c00233e0: 5b pop ebx

c00233e1: 5e pop esi

c00233e2: 5f pop edi

c00233e3: c3 ret

c00233e4 <pit\_configure\_channel>:

c00233e4: 57 push edi

c00233e5: 56 push esi

c00233e6: 53 push ebx

c00233e7: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00233eb: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c00233ef: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

c00233f3: f7 c3 fd ff ff ff test ebx,0xfffffffd

c00233f9: 74 1e je c0023419 <pit\_configure\_channel+0

x35>

c00233fb: 83 ec 0c sub esp,0xc

c00233fe: 68 d3 fb 02 c0 push 0xc002fbd3

c0023403: 68 83 ed 02 c0 push 0xc002ed83

c0023408: 68 ec d8 02 c0 push 0xc002d8ec

c002340d: 6a 33 push 0x33

c002340f: 68 f0 fb 02 c0 push 0xc002fbf0

c0023414: e8 24 45 00 00 call c002793d <debug\_panic>

c0023419: 8d 46 fe lea eax,[esi-0x2]

c002341c: 83 f8 01 cmp eax,0x1

c002341f: 76 1e jbe c002343f <pit\_configure\_channel+0

x5b>

c0023421: 83 ec 0c sub esp,0xc

c0023424: 68 04 fc 02 c0 push 0xc002fc04

c0023429: 68 83 ed 02 c0 push 0xc002ed83

c002342e: 68 ec d8 02 c0 push 0xc002d8ec

c0023433: 6a 34 push 0x34

c0023435: 68 f0 fb 02 c0 push 0xc002fbf0

c002343a: e8 fe 44 00 00 call c002793d <debug\_panic>

c002343f: bf 00 00 00 00 mov edi,0x0

c0023444: 83 f9 12 cmp ecx,0x12

c0023447: 7e 20 jle c0023469 <pit\_configure\_channel+0

x85>

c0023449: bf 02 00 00 00 mov edi,0x2

c002344e: 81 f9 dc 34 12 00 cmp ecx,0x1234dc

c0023454: 7f 13 jg c0023469 <pit\_configure\_channel+0

x85>

c0023456: 89 c8 mov eax,ecx

c0023458: c1 e8 1f shr eax,0x1f

c002345b: 01 c8 add eax,ecx

c002345d: d1 f8 sar eax,1

c002345f: 05 dc 34 12 00 add eax,0x1234dc

c0023464: 99 cdq

c0023465: f7 f9 idiv ecx

c0023467: 89 c7 mov edi,eax

c0023469: e8 14 e0 ff ff call c0021482 <intr\_disable>

c002346e: 89 c1 mov ecx,eax

c0023470: 01 f6 add esi,esi

c0023472: 83 ce 30 or esi,0x30

c0023475: 89 d8 mov eax,ebx

c0023477: c1 e0 06 shl eax,0x6

c002347a: 09 f0 or eax,esi

c002347c: e6 43 out 0x43,al

c002347e: 8d 53 40 lea edx,[ebx+0x40]

c0023481: 89 f8 mov eax,edi

c0023483: ee out dx,al

c0023484: 89 f8 mov eax,edi

c0023486: 66 c1 e8 08 shr ax,0x8

c002348a: ee out dx,al

c002348b: 83 ec 0c sub esp,0xc

c002348e: 51 push ecx

c002348f: e8 f5 df ff ff call c0021489 <intr\_set\_level>

c0023494: 83 c4 10 add esp,0x10

c0023497: 5b pop ebx

c0023498: 5e pop esi

c0023499: 5f pop edi

c002349a: c3 ret

c002349b <busy\_wait>:

c002349b: 53 push ebx

c002349c: 89 c1 mov ecx,eax

c002349e: 89 d3 mov ebx,edx

c00234a0: 83 c1 ff add ecx,0xffffffff

c00234a3: 83 d3 ff adc ebx,0xffffffff

c00234a6: 85 d2 test edx,edx

c00234a8: 78 18 js c00234c2 <busy\_wait+0x27>

c00234aa: 85 d2 test edx,edx

c00234ac: 7f 05 jg c00234b3 <busy\_wait+0x18>

c00234ae: 83 f8 00 cmp eax,0x0

c00234b1: 76 0f jbe c00234c2 <busy\_wait+0x27>

c00234b3: 83 c1 ff add ecx,0xffffffff

c00234b6: 83 d3 ff adc ebx,0xffffffff

c00234b9: 89 c8 mov eax,ecx

c00234bb: 21 d8 and eax,ebx

c00234bd: 83 f8 ff cmp eax,0xffffffff

c00234c0: 75 f1 jne c00234b3 <busy\_wait+0x18>

c00234c2: 5b pop ebx

c00234c3: c3 ret

c00234c4 <too\_many\_loops>:

c00234c4: 55 push ebp

c00234c5: 57 push edi

c00234c6: 56 push esi

c00234c7: 53 push ebx

c00234c8: 83 ec 04 sub esp,0x4

c00234cb: 8b 2d d8 b3 03 c0 mov ebp,DWORD PTR ds:0xc003b3d8

c00234d1: 8b 3d dc b3 03 c0 mov edi,DWORD PTR ds:0xc003b3dc

c00234d7: 8b 35 d8 b3 03 c0 mov esi,DWORD PTR ds:0xc003b3d8

c00234dd: 8b 1d dc b3 03 c0 mov ebx,DWORD PTR ds:0xc003b3dc

c00234e3: 89 f9 mov ecx,edi

c00234e5: 31 d9 xor ecx,ebx

c00234e7: 89 ea mov edx,ebp

c00234e9: 31 f2 xor edx,esi

c00234eb: 09 d1 or ecx,edx

c00234ed: 74 e8 je c00234d7 <too\_many\_loops+0x13>

c00234ef: ba 00 00 00 00 mov edx,0x0

c00234f4: e8 a2 ff ff ff call c002349b <busy\_wait>

c00234f9: 33 35 d8 b3 03 c0 xor esi,DWORD PTR ds:0xc003b3d8

c00234ff: 33 1d dc b3 03 c0 xor ebx,DWORD PTR ds:0xc003b3dc

c0023505: 09 de or esi,ebx

c0023507: 0f 95 c0 setne al

c002350a: 83 c4 04 add esp,0x4

c002350d: 5b pop ebx

c002350e: 5e pop esi

c002350f: 5f pop edi

c0023510: 5d pop ebp

c0023511: c3 ret

c0023512 <timer\_interrupt>:

c0023512: 83 ec 0c sub esp,0xc

c0023515: 83 05 d8 b3 03 c0 01 add DWORD PTR ds:0xc003b3d8,0x1

c002351c: 83 15 dc b3 03 c0 00 adc DWORD PTR ds:0xc003b3dc,0x0

c0023523: e8 28 d7 ff ff call c0020c50 <thread\_tick>

c0023528: 83 c4 0c add esp,0xc

c002352b: c3 ret

c002352c <real\_time\_delay>:

c002352c: 57 push edi

c002352d: 56 push esi

c002352e: 53 push ebx

c002352f: 89 c7 mov edi,eax

c0023531: 89 d6 mov esi,edx

c0023533: ba d3 4d 62 10 mov edx,0x10624dd3

c0023538: 89 c8 mov eax,ecx

c002353a: f7 ea imul edx

c002353c: c1 fa 06 sar edx,0x6

c002353f: 89 c8 mov eax,ecx

c0023541: c1 f8 1f sar eax,0x1f

c0023544: 29 c2 sub edx,eax

c0023546: 69 d2 e8 03 00 00 imul edx,edx,0x3e8

c002354c: 39 d1 cmp ecx,edx

c002354e: 74 21 je c0023571 <real\_time\_delay+0x45>

c0023550: 83 ec 0c sub esp,0xc

c0023553: 68 1b fc 02 c0 push 0xc002fc1b

c0023558: 68 83 ed 02 c0 push 0xc002ed83

c002355d: 68 04 d9 02 c0 push 0xc002d904

c0023562: 68 f4 00 00 00 push 0xf4

c0023567: 68 2d fc 02 c0 push 0xc002fc2d

c002356c: e8 cc 43 00 00 call c002793d <debug\_panic>

c0023571: 89 cb mov ebx,ecx

c0023573: a1 d0 b3 03 c0 mov eax,ds:0xc003b3d0

c0023578: 0f af f0 imul esi,eax

c002357b: f7 e7 mul edi

c002357d: 01 f2 add edx,esi

c002357f: 6a 00 push 0x0

c0023581: 68 e8 03 00 00 push 0x3e8

c0023586: 52 push edx

c0023587: 50 push eax

c0023588: e8 e4 3d 00 00 call c0027371 <\_\_divdi3>

c002358d: 83 c4 10 add esp,0x10

c0023590: 89 c6 mov esi,eax

c0023592: 69 ca e8 03 00 00 imul ecx,edx,0x3e8

c0023598: bf e8 03 00 00 mov edi,0x3e8

c002359d: 89 f8 mov eax,edi

c002359f: f7 e6 mul esi

c00235a1: 89 c6 mov esi,eax

c00235a3: 89 d7 mov edi,edx

c00235a5: 01 cf add edi,ecx

c00235a7: ba d3 4d 62 10 mov edx,0x10624dd3

c00235ac: 89 d8 mov eax,ebx

c00235ae: f7 ea imul edx

c00235b0: 89 d0 mov eax,edx

c00235b2: c1 f8 06 sar eax,0x6

c00235b5: c1 fb 1f sar ebx,0x1f

c00235b8: 29 d8 sub eax,ebx

c00235ba: 99 cdq

c00235bb: 52 push edx

c00235bc: 50 push eax

c00235bd: 57 push edi

c00235be: 56 push esi

c00235bf: e8 ad 3d 00 00 call c0027371 <\_\_divdi3>

c00235c4: 83 c4 10 add esp,0x10

c00235c7: e8 cf fe ff ff call c002349b <busy\_wait>

c00235cc: 5b pop ebx

c00235cd: 5e pop esi

c00235ce: 5f pop edi

c00235cf: c3 ret

c00235d0 <timer\_init>:

c00235d0: 83 ec 10 sub esp,0x10

c00235d3: 68 e8 03 00 00 push 0x3e8

c00235d8: 6a 02 push 0x2

c00235da: 6a 00 push 0x0

c00235dc: e8 03 fe ff ff call c00233e4 <pit\_configure\_channel>

c00235e1: 83 c4 0c add esp,0xc

c00235e4: 68 43 fc 02 c0 push 0xc002fc43

c00235e9: 68 12 35 02 c0 push 0xc0023512

c00235ee: 6a 20 push 0x20

c00235f0: e8 2c e0 ff ff call c0021621 <intr\_register\_ext>

c00235f5: 83 c4 1c add esp,0x1c

c00235f8: c3 ret

c00235f9 <timer\_calibrate>:

c00235f9: 57 push edi

c00235fa: 56 push esi

c00235fb: 53 push ebx

c00235fc: e8 44 de ff ff call c0021445 <intr\_get\_level>

c0023601: 83 f8 01 cmp eax,0x1

c0023604: 74 1e je c0023624 <timer\_calibrate+0x2b>

c0023606: 83 ec 0c sub esp,0xc

c0023609: 68 4e fc 02 c0 push 0xc002fc4e

c002360e: 68 83 ed 02 c0 push 0xc002ed83

c0023613: 68 30 d9 02 c0 push 0xc002d930

c0023618: 6a 30 push 0x30

c002361a: 68 2d fc 02 c0 push 0xc002fc2d

c002361f: e8 19 43 00 00 call c002793d <debug\_panic>

c0023624: 83 ec 0c sub esp,0xc

c0023627: 68 6b fc 02 c0 push 0xc002fc6b

c002362c: e8 94 26 00 00 call c0025cc5 <printf>

c0023631: c7 05 d0 b3 03 c0 00 mov DWORD PTR ds:0xc003b3d0,0x400

c0023638: 04 00 00

c002363b: 83 c4 10 add esp,0x10

c002363e: eb 28 jmp c0023668 <timer\_calibrate+0x6f>

c0023640: 89 1d d0 b3 03 c0 mov DWORD PTR ds:0xc003b3d0,ebx

c0023646: 85 db test ebx,ebx

c0023648: 75 1e jne c0023668 <timer\_calibrate+0x6f>

c002364a: 83 ec 0c sub esp,0xc

c002364d: 68 82 fc 02 c0 push 0xc002fc82

c0023652: 68 83 ed 02 c0 push 0xc002ed83

c0023657: 68 30 d9 02 c0 push 0xc002d930

c002365c: 6a 39 push 0x39

c002365e: 68 2d fc 02 c0 push 0xc002fc2d

c0023663: e8 d5 42 00 00 call c002793d <debug\_panic>

c0023668: 8b 35 d0 b3 03 c0 mov esi,DWORD PTR ds:0xc003b3d0

c002366e: 8d 1c 36 lea ebx,[esi+esi\*1]

c0023671: 89 d8 mov eax,ebx

c0023673: e8 4c fe ff ff call c00234c4 <too\_many\_loops>

c0023678: 84 c0 test al,al

c002367a: 74 c4 je c0023640 <timer\_calibrate+0x47>

c002367c: 89 f3 mov ebx,esi

c002367e: d1 eb shr ebx,1

c0023680: 89 f7 mov edi,esi

c0023682: c1 ef 0a shr edi,0xa

c0023685: 39 df cmp edi,ebx

c0023687: 74 19 je c00236a2 <timer\_calibrate+0xa9>

c0023689: 89 f0 mov eax,esi

c002368b: 09 d8 or eax,ebx

c002368d: e8 32 fe ff ff call c00234c4 <too\_many\_loops>

c0023692: 84 c0 test al,al

c0023694: 75 06 jne c002369c <timer\_calibrate+0xa3>

c0023696: 09 1d d0 b3 03 c0 or DWORD PTR ds:0xc003b3d0,ebx

c002369c: d1 eb shr ebx,1

c002369e: 39 df cmp edi,ebx

c00236a0: 75 e7 jne c0023689 <timer\_calibrate+0x90>

c00236a2: 83 ec 04 sub esp,0x4

c00236a5: b8 e8 03 00 00 mov eax,0x3e8

c00236aa: f7 25 d0 b3 03 c0 mul DWORD PTR ds:0xc003b3d0

c00236b0: 52 push edx

c00236b1: 50 push eax

c00236b2: 68 96 fc 02 c0 push 0xc002fc96

c00236b7: e8 09 26 00 00 call c0025cc5 <printf>

c00236bc: 83 c4 10 add esp,0x10

c00236bf: 5b pop ebx

c00236c0: 5e pop esi

c00236c1: 5f pop edi

c00236c2: c3 ret

c00236c3 <timer\_ticks>:

c00236c3: 57 push edi

c00236c4: 56 push esi

c00236c5: 83 ec 04 sub esp,0x4

c00236c8: e8 b5 dd ff ff call c0021482 <intr\_disable>

c00236cd: 8b 35 d8 b3 03 c0 mov esi,DWORD PTR ds:0xc003b3d8

c00236d3: 8b 3d dc b3 03 c0 mov edi,DWORD PTR ds:0xc003b3dc

c00236d9: 83 ec 0c sub esp,0xc

c00236dc: 50 push eax

c00236dd: e8 a7 dd ff ff call c0021489 <intr\_set\_level>

c00236e2: 89 f0 mov eax,esi

c00236e4: 89 fa mov edx,edi

c00236e6: 83 c4 14 add esp,0x14

c00236e9: 5e pop esi

c00236ea: 5f pop edi

c00236eb: c3 ret

c00236ec <timer\_elapsed>:

c00236ec: 57 push edi

c00236ed: 56 push esi

c00236ee: 83 ec 04 sub esp,0x4

c00236f1: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c00236f5: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c00236f9: e8 c5 ff ff ff call c00236c3 <timer\_ticks>

c00236fe: 29 f0 sub eax,esi

c0023700: 19 fa sbb edx,edi

c0023702: 83 c4 04 add esp,0x4

c0023705: 5e pop esi

c0023706: 5f pop edi

c0023707: c3 ret

c0023708 <timer\_sleep>:

c0023708: 55 push ebp

c0023709: 57 push edi

c002370a: 56 push esi

c002370b: 53 push ebx

c002370c: 83 ec 0c sub esp,0xc

c002370f: 8b 6c 24 20 mov ebp,DWORD PTR [esp+0x20]

c0023713: 8b 5c 24 24 mov ebx,DWORD PTR [esp+0x24]

c0023717: e8 a7 ff ff ff call c00236c3 <timer\_ticks>

c002371c: 89 c6 mov esi,eax

c002371e: 89 d7 mov edi,edx

c0023720: e8 20 dd ff ff call c0021445 <intr\_get\_level>

c0023725: 83 f8 01 cmp eax,0x1

c0023728: 74 23 je c002374d <timer\_sleep+0x45>

c002372a: 83 ec 0c sub esp,0xc

c002372d: 68 4e fc 02 c0 push 0xc002fc4e

c0023732: 68 83 ed 02 c0 push 0xc002ed83

c0023737: 68 24 d9 02 c0 push 0xc002d924

c002373c: 6a 5e push 0x5e

c002373e: 68 2d fc 02 c0 push 0xc002fc2d

c0023743: e8 f5 41 00 00 call c002793d <debug\_panic>

c0023748: e8 d9 d9 ff ff call c0021126 <thread\_yield>

c002374d: e8 71 ff ff ff call c00236c3 <timer\_ticks>

c0023752: 29 f0 sub eax,esi

c0023754: 19 fa sbb edx,edi

c0023756: 39 d3 cmp ebx,edx

c0023758: 7f ee jg c0023748 <timer\_sleep+0x40>

c002375a: 7c 04 jl c0023760 <timer\_sleep+0x58>

c002375c: 39 c5 cmp ebp,eax

c002375e: 77 e8 ja c0023748 <timer\_sleep+0x40>

c0023760: 83 c4 0c add esp,0xc

c0023763: 5b pop ebx

c0023764: 5e pop esi

c0023765: 5f pop edi

c0023766: 5d pop ebp

c0023767: c3 ret

c0023768 <real\_time\_sleep>:

c0023768: 55 push ebp

c0023769: 57 push edi

c002376a: 56 push esi

c002376b: 53 push ebx

c002376c: 83 ec 1c sub esp,0x1c

c002376f: 89 c5 mov ebp,eax

c0023771: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c0023775: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0023779: 89 ce mov esi,ecx

c002377b: 69 fa e8 03 00 00 imul edi,edx,0x3e8

c0023781: bb e8 03 00 00 mov ebx,0x3e8

c0023786: 89 d8 mov eax,ebx

c0023788: f7 e5 mul ebp

c002378a: 89 c1 mov ecx,eax

c002378c: 89 d3 mov ebx,edx

c002378e: 01 fb add ebx,edi

c0023790: 89 f0 mov eax,esi

c0023792: 99 cdq

c0023793: 52 push edx

c0023794: 56 push esi

c0023795: 53 push ebx

c0023796: 51 push ecx

c0023797: e8 d5 3b 00 00 call c0027371 <\_\_divdi3>

c002379c: 83 c4 10 add esp,0x10

c002379f: 89 c7 mov edi,eax

c00237a1: 89 d5 mov ebp,edx

c00237a3: e8 9d dc ff ff call c0021445 <intr\_get\_level>

c00237a8: 83 f8 01 cmp eax,0x1

c00237ab: 74 21 je c00237ce <real\_time\_sleep+0x66>

c00237ad: 83 ec 0c sub esp,0xc

c00237b0: 68 4e fc 02 c0 push 0xc002fc4e

c00237b5: 68 83 ed 02 c0 push 0xc002ed83

c00237ba: 68 14 d9 02 c0 push 0xc002d914

c00237bf: 68 de 00 00 00 push 0xde

c00237c4: 68 2d fc 02 c0 push 0xc002fc2d

c00237c9: e8 6f 41 00 00 call c002793d <debug\_panic>

c00237ce: 85 ed test ebp,ebp

c00237d0: 78 18 js c00237ea <real\_time\_sleep+0x82>

c00237d2: 85 ed test ebp,ebp

c00237d4: 7f 05 jg c00237db <real\_time\_sleep+0x73>

c00237d6: 83 ff 00 cmp edi,0x0

c00237d9: 76 0f jbe c00237ea <real\_time\_sleep+0x82>

c00237db: 83 ec 08 sub esp,0x8

c00237de: 55 push ebp

c00237df: 57 push edi

c00237e0: e8 23 ff ff ff call c0023708 <timer\_sleep>

c00237e5: 83 c4 10 add esp,0x10

c00237e8: eb 0f jmp c00237f9 <real\_time\_sleep+0x91>

c00237ea: 89 f1 mov ecx,esi

c00237ec: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c00237f0: 8b 54 24 0c mov edx,DWORD PTR [esp+0xc]

c00237f4: e8 33 fd ff ff call c002352c <real\_time\_delay>

c00237f9: 83 c4 1c add esp,0x1c

c00237fc: 5b pop ebx

c00237fd: 5e pop esi

c00237fe: 5f pop edi

c00237ff: 5d pop ebp

c0023800: c3 ret

c0023801 <timer\_msleep>:

c0023801: 83 ec 0c sub esp,0xc

c0023804: b9 e8 03 00 00 mov ecx,0x3e8

c0023809: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002380d: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0023811: e8 52 ff ff ff call c0023768 <real\_time\_sleep>

c0023816: 83 c4 0c add esp,0xc

c0023819: c3 ret

c002381a <timer\_usleep>:

c002381a: 83 ec 0c sub esp,0xc

c002381d: b9 40 42 0f 00 mov ecx,0xf4240

c0023822: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0023826: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002382a: e8 39 ff ff ff call c0023768 <real\_time\_sleep>

c002382f: 83 c4 0c add esp,0xc

c0023832: c3 ret

c0023833 <timer\_nsleep>:

c0023833: 83 ec 0c sub esp,0xc

c0023836: b9 00 ca 9a 3b mov ecx,0x3b9aca00

c002383b: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002383f: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0023843: e8 20 ff ff ff call c0023768 <real\_time\_sleep>

c0023848: 83 c4 0c add esp,0xc

c002384b: c3 ret

c002384c <timer\_mdelay>:

c002384c: 83 ec 0c sub esp,0xc

c002384f: b9 e8 03 00 00 mov ecx,0x3e8

c0023854: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0023858: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002385c: e8 cb fc ff ff call c002352c <real\_time\_delay>

c0023861: 83 c4 0c add esp,0xc

c0023864: c3 ret

c0023865 <timer\_udelay>:

c0023865: 83 ec 0c sub esp,0xc

c0023868: b9 40 42 0f 00 mov ecx,0xf4240

c002386d: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0023871: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0023875: e8 b2 fc ff ff call c002352c <real\_time\_delay>

c002387a: 83 c4 0c add esp,0xc

c002387d: c3 ret

c002387e <timer\_ndelay>:

c002387e: 83 ec 0c sub esp,0xc

c0023881: b9 00 ca 9a 3b mov ecx,0x3b9aca00

c0023886: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002388a: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002388e: e8 99 fc ff ff call c002352c <real\_time\_delay>

c0023893: 83 c4 0c add esp,0xc

c0023896: c3 ret

c0023897 <timer\_print\_stats>:

c0023897: 83 ec 0c sub esp,0xc

c002389a: e8 24 fe ff ff call c00236c3 <timer\_ticks>

c002389f: 83 ec 04 sub esp,0x4

c00238a2: 52 push edx

c00238a3: 50 push eax

c00238a4: 68 a6 fc 02 c0 push 0xc002fca6

c00238a9: e8 17 24 00 00 call c0025cc5 <printf>

c00238ae: 83 c4 1c add esp,0x1c

c00238b1: c3 ret

c00238b2 <map\_key>:

c00238b2: 55 push ebp

c00238b3: 57 push edi

c00238b4: 56 push esi

c00238b5: 53 push ebx

c00238b6: 83 ec 04 sub esp,0x4

c00238b9: 89 0c 24 mov DWORD PTR [esp],ecx

c00238bc: 0f b6 18 movzx ebx,BYTE PTR [eax]

c00238bf: 84 db test bl,bl

c00238c1: 74 48 je c002390b <map\_key+0x59>

c00238c3: 89 c6 mov esi,eax

c00238c5: b8 00 00 00 00 mov eax,0x0

c00238ca: 0f b6 db movzx ebx,bl

c00238cd: 39 d3 cmp ebx,edx

c00238cf: 77 29 ja c00238fa <map\_key+0x48>

c00238d1: 8b 6e 04 mov ebp,DWORD PTR [esi+0x4]

c00238d4: b9 ff ff ff ff mov ecx,0xffffffff

c00238d9: 89 ef mov edi,ebp

c00238db: f2 ae repnz scas al,BYTE PTR es:[edi]

c00238dd: f7 d1 not ecx

c00238df: 8d 4c 0b ff lea ecx,[ebx+ecx\*1-0x1]

c00238e3: 39 ca cmp edx,ecx

c00238e5: 73 13 jae c00238fa <map\_key+0x48>

c00238e7: 29 da sub edx,ebx

c00238e9: 0f b6 44 15 00 movzx eax,BYTE PTR [ebp+edx\*1+0x0]

c00238ee: 8b 3c 24 mov edi,DWORD PTR [esp]

c00238f1: 88 07 mov BYTE PTR [edi],al

c00238f3: b8 01 00 00 00 mov eax,0x1

c00238f8: eb 16 jmp c0023910 <map\_key+0x5e>

c00238fa: 83 c6 08 add esi,0x8

c00238fd: 0f b6 1e movzx ebx,BYTE PTR [esi]

c0023900: 84 db test bl,bl

c0023902: 75 c6 jne c00238ca <map\_key+0x18>

c0023904: b8 00 00 00 00 mov eax,0x0

c0023909: eb 05 jmp c0023910 <map\_key+0x5e>

c002390b: b8 00 00 00 00 mov eax,0x0

c0023910: 83 c4 04 add esp,0x4

c0023913: 5b pop ebx

c0023914: 5e pop esi

c0023915: 5f pop edi

c0023916: 5d pop ebp

c0023917: c3 ret

c0023918 <keyboard\_interrupt>:

c0023918: 55 push ebp

c0023919: 57 push edi

c002391a: 56 push esi

c002391b: 53 push ebx

c002391c: 83 ec 2c sub esp,0x2c

c002391f: 0f b6 15 ed b3 03 c0 movzx edx,BYTE PTR ds:0xc003b3ed

c0023926: 80 3d ee b3 03 c0 00 cmp BYTE PTR ds:0xc003b3ee,0x0

c002392d: b8 01 00 00 00 mov eax,0x1

c0023932: 0f 45 d0 cmovne edx,eax

c0023935: 0f b6 35 eb b3 03 c0 movzx esi,BYTE PTR ds:0xc003b3eb

c002393c: 80 3d ec b3 03 c0 00 cmp BYTE PTR ds:0xc003b3ec,0x0

c0023943: 0f 45 f0 cmovne esi,eax

c0023946: 0f b6 3d e9 b3 03 c0 movzx edi,BYTE PTR ds:0xc003b3e9

c002394d: 80 3d ea b3 03 c0 00 cmp BYTE PTR ds:0xc003b3ea,0x0

c0023954: 0f 45 f8 cmovne edi,eax

c0023957: e4 60 in al,0x60

c0023959: 0f b6 d8 movzx ebx,al

c002395c: 81 fb e0 00 00 00 cmp ebx,0xe0

c0023962: 75 08 jne c002396c <keyboard\_interrupt+0x54

>

c0023964: e4 60 in al,0x60

c0023966: 0f b6 d8 movzx ebx,al

c0023969: 80 cf e0 or bh,0xe0

c002396c: 89 dd mov ebp,ebx

c002396e: 81 e5 80 00 00 00 and ebp,0x80

c0023974: 80 e3 7f and bl,0x7f

c0023977: 83 fb 3a cmp ebx,0x3a

c002397a: 75 14 jne c0023990 <keyboard\_interrupt+0x78

>

c002397c: 85 ed test ebp,ebp

c002397e: 0f 85 42 01 00 00 jne c0023ac6 <keyboard\_interrupt+0x1a

e>

c0023984: 80 35 e8 b3 03 c0 01 xor BYTE PTR ds:0xc003b3e8,0x1

c002398b: e9 36 01 00 00 jmp c0023ac6 <keyboard\_interrupt+0x1a

e>

c0023990: 89 d0 mov eax,edx

c0023992: 83 e0 01 and eax,0x1

c0023995: 88 44 24 0f mov BYTE PTR [esp+0xf],al

c0023999: 8d 4c 24 1f lea ecx,[esp+0x1f]

c002399d: 89 da mov edx,ebx

c002399f: b8 00 da 02 c0 mov eax,0xc002da00

c00239a4: e8 09 ff ff ff call c00238b2 <map\_key>

c00239a9: 84 c0 test al,al

c00239ab: 75 23 jne c00239d0 <keyboard\_interrupt+0xb8

>

c00239ad: 80 7c 24 0f 00 cmp BYTE PTR [esp+0xf],0x0

c00239b2: 0f 85 d9 00 00 00 jne c0023a91 <keyboard\_interrupt+0x17

9>

c00239b8: 8d 4c 24 1f lea ecx,[esp+0x1f]

c00239bc: 89 da mov edx,ebx

c00239be: b8 c0 d9 02 c0 mov eax,0xc002d9c0

c00239c3: e8 ea fe ff ff call c00238b2 <map\_key>

c00239c8: 84 c0 test al,al

c00239ca: 0f 84 95 00 00 00 je c0023a65 <keyboard\_interrupt+0x14

d>

c00239d0: 85 ed test ebp,ebp

c00239d2: 0f 85 ee 00 00 00 jne c0023ac6 <keyboard\_interrupt+0x1a

e>

c00239d8: 0f b6 44 24 1f movzx eax,BYTE PTR [esp+0x1f]

c00239dd: 3c 7f cmp al,0x7f

c00239df: 75 13 jne c00239f4 <keyboard\_interrupt+0xdc

>

c00239e1: 21 f7 and edi,esi

c00239e3: f7 c7 01 00 00 00 test edi,0x1

c00239e9: 0f 84 c4 00 00 00 je c0023ab3 <keyboard\_interrupt+0x19

b>

c00239ef: e8 90 1b 00 00 call c0025584 <shutdown\_reboot>

c00239f4: 8d 50 c0 lea edx,[eax-0x40]

c00239f7: 80 fa 1f cmp dl,0x1f

c00239fa: 77 0e ja c0023a0a <keyboard\_interrupt+0xf2

>

c00239fc: f7 c7 01 00 00 00 test edi,0x1

c0023a02: 74 06 je c0023a0a <keyboard\_interrupt+0xf2

>

c0023a04: 88 54 24 1f mov BYTE PTR [esp+0x1f],dl

c0023a08: eb 20 jmp c0023a2a <keyboard\_interrupt+0x11

2>

c0023a0a: 0f b6 4c 24 0f movzx ecx,BYTE PTR [esp+0xf]

c0023a0f: 3a 0d e8 b3 03 c0 cmp cl,BYTE PTR ds:0xc003b3e8

c0023a15: 75 13 jne c0023a2a <keyboard\_interrupt+0x11

2>

c0023a17: 0f b6 c0 movzx eax,al

c0023a1a: 8d 48 bf lea ecx,[eax-0x41]

c0023a1d: 8d 50 20 lea edx,[eax+0x20]

c0023a20: 83 f9 19 cmp ecx,0x19

c0023a23: 0f 46 c2 cmovbe eax,edx

c0023a26: 88 44 24 1f mov BYTE PTR [esp+0x1f],al

c0023a2a: f7 c6 01 00 00 00 test esi,0x1

c0023a30: 74 05 je c0023a37 <keyboard\_interrupt+0x11

f>

c0023a32: 80 44 24 1f 80 add BYTE PTR [esp+0x1f],0x80

c0023a37: e8 35 16 00 00 call c0025071 <input\_full>

c0023a3c: 84 c0 test al,al

c0023a3e: 0f 85 82 00 00 00 jne c0023ac6 <keyboard\_interrupt+0x1a

e>

c0023a44: 83 05 e0 b3 03 c0 01 add DWORD PTR ds:0xc003b3e0,0x1

c0023a4b: 83 15 e4 b3 03 c0 00 adc DWORD PTR ds:0xc003b3e4,0x0

c0023a52: 83 ec 0c sub esp,0xc

c0023a55: 0f b6 44 24 2b movzx eax,BYTE PTR [esp+0x2b]

c0023a5a: 50 push eax

c0023a5b: e8 65 15 00 00 call c0024fc5 <input\_putc>

c0023a60: 83 c4 10 add esp,0x10

c0023a63: eb 61 jmp c0023ac6 <keyboard\_interrupt+0x1a

e>

c0023a65: 83 fb 2a cmp ebx,0x2a

c0023a68: 74 0d je c0023a77 <keyboard\_interrupt+0x15

f>

c0023a6a: b8 40 d9 02 c0 mov eax,0xc002d940

c0023a6f: eb 15 jmp c0023a86 <keyboard\_interrupt+0x16

e>

c0023a71: 39 d3 cmp ebx,edx

c0023a73: 75 11 jne c0023a86 <keyboard\_interrupt+0x16

e>

c0023a75: eb 05 jmp c0023a7c <keyboard\_interrupt+0x16

4>

c0023a77: b8 40 d9 02 c0 mov eax,0xc002d940

c0023a7c: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c0023a7f: 85 ed test ebp,ebp

c0023a81: 0f 94 00 sete BYTE PTR [eax]

c0023a84: eb 40 jmp c0023ac6 <keyboard\_interrupt+0x1a

e>

c0023a86: 83 c0 08 add eax,0x8

c0023a89: 8b 10 mov edx,DWORD PTR [eax]

c0023a8b: 85 d2 test edx,edx

c0023a8d: 75 e2 jne c0023a71 <keyboard\_interrupt+0x15

9>

c0023a8f: eb 35 jmp c0023ac6 <keyboard\_interrupt+0x1a

e>

c0023a91: 8d 4c 24 1f lea ecx,[esp+0x1f]

c0023a95: 89 da mov edx,ebx

c0023a97: b8 80 d9 02 c0 mov eax,0xc002d980

c0023a9c: e8 11 fe ff ff call c00238b2 <map\_key>

c0023aa1: 84 c0 test al,al

c0023aa3: 0f 85 27 ff ff ff jne c00239d0 <keyboard\_interrupt+0xb8

>

c0023aa9: eb ba jmp c0023a65 <keyboard\_interrupt+0x14

d>

c0023aab: 0f b6 c0 movzx eax,al

c0023aae: e9 73 ff ff ff jmp c0023a26 <keyboard\_interrupt+0x10

e>

c0023ab3: 0f b6 4c 24 0f movzx ecx,BYTE PTR [esp+0xf]

c0023ab8: 3a 0d e8 b3 03 c0 cmp cl,BYTE PTR ds:0xc003b3e8

c0023abe: 0f 85 66 ff ff ff jne c0023a2a <keyboard\_interrupt+0x11

2>

c0023ac4: eb e5 jmp c0023aab <keyboard\_interrupt+0x19

3>

c0023ac6: 83 c4 2c add esp,0x2c

c0023ac9: 5b pop ebx

c0023aca: 5e pop esi

c0023acb: 5f pop edi

c0023acc: 5d pop ebp

c0023acd: c3 ret

c0023ace <kbd\_init>:

c0023ace: 83 ec 10 sub esp,0x10

c0023ad1: 68 b9 fc 02 c0 push 0xc002fcb9

c0023ad6: 68 18 39 02 c0 push 0xc0023918

c0023adb: 6a 21 push 0x21

c0023add: e8 3f db ff ff call c0021621 <intr\_register\_ext>

c0023ae2: 83 c4 1c add esp,0x1c

c0023ae5: c3 ret

c0023ae6 <kbd\_print\_stats>:

c0023ae6: 83 ec 10 sub esp,0x10

c0023ae9: ff 35 e4 b3 03 c0 push DWORD PTR ds:0xc003b3e4

c0023aef: ff 35 e0 b3 03 c0 push DWORD PTR ds:0xc003b3e0

c0023af5: 68 c7 fc 02 c0 push 0xc002fcc7

c0023afa: e8 c6 21 00 00 call c0025cc5 <printf>

c0023aff: 83 c4 1c add esp,0x1c

c0023b02: c3 ret

c0023b03 <move\_cursor>:

c0023b03: 8b 0d f8 b3 03 c0 mov ecx,DWORD PTR ds:0xc003b3f8

c0023b09: 8d 0c 89 lea ecx,[ecx+ecx\*4]

c0023b0c: c1 e1 04 shl ecx,0x4

c0023b0f: 66 03 0d fc b3 03 c0 add cx,WORD PTR ds:0xc003b3fc

c0023b16: 89 c8 mov eax,ecx

c0023b18: b0 00 mov al,0x0

c0023b1a: 83 c8 0e or eax,0xe

c0023b1d: ba d4 03 00 00 mov edx,0x3d4

c0023b22: 66 ef out dx,ax

c0023b24: 89 c8 mov eax,ecx

c0023b26: c1 e0 08 shl eax,0x8

c0023b29: 83 c8 0f or eax,0xf

c0023b2c: 66 ef out dx,ax

c0023b2e: c3 ret

c0023b2f <newline>:

c0023b2f: c7 05 fc b3 03 c0 00 mov DWORD PTR ds:0xc003b3fc,0x0

c0023b36: 00 00 00

c0023b39: a1 f8 b3 03 c0 mov eax,ds:0xc003b3f8

c0023b3e: 83 c0 01 add eax,0x1

c0023b41: 83 f8 18 cmp eax,0x18

c0023b44: 77 06 ja c0023b4c <newline+0x1d>

c0023b46: a3 f8 b3 03 c0 mov ds:0xc003b3f8,eax

c0023b4b: c3 ret

c0023b4c: 53 push ebx

c0023b4d: 83 ec 0c sub esp,0xc

c0023b50: c7 05 f8 b3 03 c0 18 mov DWORD PTR ds:0xc003b3f8,0x18

c0023b57: 00 00 00

c0023b5a: 8b 1d f4 b3 03 c0 mov ebx,DWORD PTR ds:0xc003b3f4

c0023b60: 68 00 0f 00 00 push 0xf00

c0023b65: 8d 83 a0 00 00 00 lea eax,[ebx+0xa0]

c0023b6b: 50 push eax

c0023b6c: 53 push ebx

c0023b6d: e8 16 2f 00 00 call c0026a88 <memmove>

c0023b72: 8d 83 00 0f 00 00 lea eax,[ebx+0xf00]

c0023b78: 8d 93 a0 0f 00 00 lea edx,[ebx+0xfa0]

c0023b7e: 83 c4 10 add esp,0x10

c0023b81: c6 00 20 mov BYTE PTR [eax],0x20

c0023b84: c6 40 01 07 mov BYTE PTR [eax+0x1],0x7

c0023b88: 83 c0 02 add eax,0x2

c0023b8b: 39 d0 cmp eax,edx

c0023b8d: 75 f2 jne c0023b81 <newline+0x52>

c0023b8f: 83 c4 08 add esp,0x8

c0023b92: 5b pop ebx

c0023b93: c3 ret

c0023b94 <vga\_putc>:

c0023b94: 57 push edi

c0023b95: 56 push esi

c0023b96: 53 push ebx

c0023b97: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0023b9b: e8 e2 d8 ff ff call c0021482 <intr\_disable>

c0023ba0: 89 c3 mov ebx,eax

c0023ba2: 80 3d f0 b3 03 c0 00 cmp BYTE PTR ds:0xc003b3f0,0x0

c0023ba9: 75 61 jne c0023c0c <vga\_putc+0x78>

c0023bab: c7 05 f4 b3 03 c0 00 mov DWORD PTR ds:0xc003b3f4,0xc00b800

0

c0023bb2: 80 0b c0

c0023bb5: ba d4 03 00 00 mov edx,0x3d4

c0023bba: b8 0e 00 00 00 mov eax,0xe

c0023bbf: ee out dx,al

c0023bc0: b9 d5 03 00 00 mov ecx,0x3d5

c0023bc5: 89 ca mov edx,ecx

c0023bc7: ec in al,dx

c0023bc8: 89 c7 mov edi,eax

c0023bca: c1 e7 08 shl edi,0x8

c0023bcd: ba d4 03 00 00 mov edx,0x3d4

c0023bd2: b8 0f 00 00 00 mov eax,0xf

c0023bd7: ee out dx,al

c0023bd8: 89 ca mov edx,ecx

c0023bda: ec in al,dx

c0023bdb: 0f b6 c0 movzx eax,al

c0023bde: 09 f8 or eax,edi

c0023be0: 0f b7 d0 movzx edx,ax

c0023be3: 69 d2 cd cc 00 00 imul edx,edx,0xcccd

c0023be9: c1 ea 16 shr edx,0x16

c0023bec: 8d 0c 92 lea ecx,[edx+edx\*4]

c0023bef: c1 e1 04 shl ecx,0x4

c0023bf2: 29 c8 sub eax,ecx

c0023bf4: 0f b7 c0 movzx eax,ax

c0023bf7: a3 fc b3 03 c0 mov ds:0xc003b3fc,eax

c0023bfc: 0f b7 d2 movzx edx,dx

c0023bff: 89 15 f8 b3 03 c0 mov DWORD PTR ds:0xc003b3f8,edx

c0023c05: c6 05 f0 b3 03 c0 01 mov BYTE PTR ds:0xc003b3f0,0x1

c0023c0c: 8d 46 f9 lea eax,[esi-0x7]

c0023c0f: 83 f8 06 cmp eax,0x6

c0023c12: 0f 87 b5 00 00 00 ja c0023ccd <vga\_putc+0x139>

c0023c18: ff 24 85 50 da 02 c0 jmp DWORD PTR [eax\*4-0x3ffd25b0]

c0023c1f: a1 f4 b3 03 c0 mov eax,ds:0xc003b3f4

c0023c24: 8d 88 a0 0f 00 00 lea ecx,[eax+0xfa0]

c0023c2a: eb 1e jmp c0023c4a <vga\_putc+0xb6>

c0023c2c: e8 fe fe ff ff call c0023b2f <newline>

c0023c31: e9 e3 00 00 00 jmp c0023d19 <vga\_putc+0x185>

c0023c36: c6 00 20 mov BYTE PTR [eax],0x20

c0023c39: c6 40 01 07 mov BYTE PTR [eax+0x1],0x7

c0023c3d: 83 c0 02 add eax,0x2

c0023c40: 39 d0 cmp eax,edx

c0023c42: 75 f2 jne c0023c36 <vga\_putc+0xa2>

c0023c44: 89 d0 mov eax,edx

c0023c46: 39 d1 cmp ecx,edx

c0023c48: 74 08 je c0023c52 <vga\_putc+0xbe>

c0023c4a: 8d 90 a0 00 00 00 lea edx,[eax+0xa0]

c0023c50: eb e4 jmp c0023c36 <vga\_putc+0xa2>

c0023c52: c7 05 f8 b3 03 c0 00 mov DWORD PTR ds:0xc003b3f8,0x0

c0023c59: 00 00 00

c0023c5c: c7 05 fc b3 03 c0 00 mov DWORD PTR ds:0xc003b3fc,0x0

c0023c63: 00 00 00

c0023c66: e8 98 fe ff ff call c0023b03 <move\_cursor>

c0023c6b: e9 a9 00 00 00 jmp c0023d19 <vga\_putc+0x185>

c0023c70: a1 fc b3 03 c0 mov eax,ds:0xc003b3fc

c0023c75: 85 c0 test eax,eax

c0023c77: 0f 84 9c 00 00 00 je c0023d19 <vga\_putc+0x185>

c0023c7d: 83 e8 01 sub eax,0x1

c0023c80: a3 fc b3 03 c0 mov ds:0xc003b3fc,eax

c0023c85: e9 8f 00 00 00 jmp c0023d19 <vga\_putc+0x185>

c0023c8a: c7 05 fc b3 03 c0 00 mov DWORD PTR ds:0xc003b3fc,0x0

c0023c91: 00 00 00

c0023c94: e9 80 00 00 00 jmp c0023d19 <vga\_putc+0x185>

c0023c99: a1 fc b3 03 c0 mov eax,ds:0xc003b3fc

c0023c9e: 83 c0 08 add eax,0x8

c0023ca1: 83 e0 f8 and eax,0xfffffff8

c0023ca4: a3 fc b3 03 c0 mov ds:0xc003b3fc,eax

c0023ca9: 83 f8 4f cmp eax,0x4f

c0023cac: 76 6b jbe c0023d19 <vga\_putc+0x185>

c0023cae: e8 7c fe ff ff call c0023b2f <newline>

c0023cb3: eb 64 jmp c0023d19 <vga\_putc+0x185>

c0023cb5: 83 ec 0c sub esp,0xc

c0023cb8: 53 push ebx

c0023cb9: e8 cb d7 ff ff call c0021489 <intr\_set\_level>

c0023cbe: e8 38 1a 00 00 call c00256fb <speaker\_beep>

c0023cc3: e8 ba d7 ff ff call c0021482 <intr\_disable>

c0023cc8: 83 c4 10 add esp,0x10

c0023ccb: eb 4c jmp c0023d19 <vga\_putc+0x185>

c0023ccd: 8b 3d f4 b3 03 c0 mov edi,DWORD PTR ds:0xc003b3f4

c0023cd3: a1 f8 b3 03 c0 mov eax,ds:0xc003b3f8

c0023cd8: 8d 14 80 lea edx,[eax+eax\*4]

c0023cdb: c1 e2 05 shl edx,0x5

c0023cde: 01 fa add edx,edi

c0023ce0: a1 fc b3 03 c0 mov eax,ds:0xc003b3fc

c0023ce5: 89 f1 mov ecx,esi

c0023ce7: 88 0c 42 mov BYTE PTR [edx+eax\*2],cl

c0023cea: a1 f8 b3 03 c0 mov eax,ds:0xc003b3f8

c0023cef: 8d 04 80 lea eax,[eax+eax\*4]

c0023cf2: c1 e0 05 shl eax,0x5

c0023cf5: 01 f8 add eax,edi

c0023cf7: 8b 15 fc b3 03 c0 mov edx,DWORD PTR ds:0xc003b3fc

c0023cfd: c6 44 50 01 07 mov BYTE PTR [eax+edx\*2+0x1],0x7

c0023d02: a1 fc b3 03 c0 mov eax,ds:0xc003b3fc

c0023d07: 83 c0 01 add eax,0x1

c0023d0a: a3 fc b3 03 c0 mov ds:0xc003b3fc,eax

c0023d0f: 83 f8 4f cmp eax,0x4f

c0023d12: 76 05 jbe c0023d19 <vga\_putc+0x185>

c0023d14: e8 16 fe ff ff call c0023b2f <newline>

c0023d19: e8 e5 fd ff ff call c0023b03 <move\_cursor>

c0023d1e: 83 ec 0c sub esp,0xc

c0023d21: 53 push ebx

c0023d22: e8 62 d7 ff ff call c0021489 <intr\_set\_level>

c0023d27: 83 c4 10 add esp,0x10

c0023d2a: 5b pop ebx

c0023d2b: 5e pop esi

c0023d2c: 5f pop edi

c0023d2d: c3 ret

c0023d2e <init\_poll>:

c0023d2e: 83 ec 0c sub esp,0xc

c0023d31: 83 3d 70 b4 03 c0 00 cmp DWORD PTR ds:0xc003b470,0x0

c0023d38: 74 1e je c0023d58 <init\_poll+0x2a>

c0023d3a: 83 ec 0c sub esp,0xc

c0023d3d: 68 3e fd 02 c0 push 0xc002fd3e

c0023d42: 68 83 ed 02 c0 push 0xc002ed83

c0023d47: 68 94 da 02 c0 push 0xc002da94

c0023d4c: 6a 45 push 0x45

c0023d4e: 68 4d fd 02 c0 push 0xc002fd4d

c0023d53: e8 e5 3b 00 00 call c002793d <debug\_panic>

c0023d58: ba f9 03 00 00 mov edx,0x3f9

c0023d5d: b8 00 00 00 00 mov eax,0x0

c0023d62: ee out dx,al

c0023d63: ba fa 03 00 00 mov edx,0x3fa

c0023d68: ee out dx,al

c0023d69: ba fb 03 00 00 mov edx,0x3fb

c0023d6e: b8 83 ff ff ff mov eax,0xffffff83

c0023d73: ee out dx,al

c0023d74: ba f8 03 00 00 mov edx,0x3f8

c0023d79: b8 0c 00 00 00 mov eax,0xc

c0023d7e: ee out dx,al

c0023d7f: ba f9 03 00 00 mov edx,0x3f9

c0023d84: b8 00 00 00 00 mov eax,0x0

c0023d89: ee out dx,al

c0023d8a: ba fb 03 00 00 mov edx,0x3fb

c0023d8f: b8 03 00 00 00 mov eax,0x3

c0023d94: ee out dx,al

c0023d95: ba fc 03 00 00 mov edx,0x3fc

c0023d9a: b8 08 00 00 00 mov eax,0x8

c0023d9f: ee out dx,al

c0023da0: 83 ec 0c sub esp,0xc

c0023da3: 68 00 b4 03 c0 push 0xc003b400

c0023da8: e8 ff 12 00 00 call c00250ac <intq\_init>

c0023dad: c7 05 70 b4 03 c0 01 mov DWORD PTR ds:0xc003b470,0x1

c0023db4: 00 00 00

c0023db7: 83 c4 1c add esp,0x1c

c0023dba: c3 ret

c0023dbb <write\_ier>:

c0023dbb: 53 push ebx

c0023dbc: 83 ec 08 sub esp,0x8

c0023dbf: e8 81 d6 ff ff call c0021445 <intr\_get\_level>

c0023dc4: 85 c0 test eax,eax

c0023dc6: 74 21 je c0023de9 <write\_ier+0x2e>

c0023dc8: 83 ec 0c sub esp,0xc

c0023dcb: 68 c4 f3 02 c0 push 0xc002f3c4

c0023dd0: 68 83 ed 02 c0 push 0xc002ed83

c0023dd5: 68 88 da 02 c0 push 0xc002da88

c0023dda: 68 b5 00 00 00 push 0xb5

c0023ddf: 68 4d fd 02 c0 push 0xc002fd4d

c0023de4: e8 54 3b 00 00 call c002793d <debug\_panic>

c0023de9: 83 ec 0c sub esp,0xc

c0023dec: 68 00 b4 03 c0 push 0xc003b400

c0023df1: e8 e5 12 00 00 call c00250db <intq\_empty>

c0023df6: 83 c4 10 add esp,0x10

c0023df9: 3c 01 cmp al,0x1

c0023dfb: 19 db sbb ebx,ebx

c0023dfd: 83 e3 02 and ebx,0x2

c0023e00: e8 6c 12 00 00 call c0025071 <input\_full>

c0023e05: 89 da mov edx,ebx

c0023e07: 83 ca 01 or edx,0x1

c0023e0a: 84 c0 test al,al

c0023e0c: 0f 44 da cmove ebx,edx

c0023e0f: ba f9 03 00 00 mov edx,0x3f9

c0023e14: 89 d8 mov eax,ebx

c0023e16: ee out dx,al

c0023e17: 83 c4 08 add esp,0x8

c0023e1a: 5b pop ebx

c0023e1b: c3 ret

c0023e1c <serial\_interrupt>:

c0023e1c: 56 push esi

c0023e1d: 53 push ebx

c0023e1e: 83 ec 04 sub esp,0x4

c0023e21: ba fa 03 00 00 mov edx,0x3fa

c0023e26: ec in al,dx

c0023e27: bb fd 03 00 00 mov ebx,0x3fd

c0023e2c: be f8 03 00 00 mov esi,0x3f8

c0023e31: eb 12 jmp c0023e45 <serial\_interrupt+0x29>

c0023e33: 89 f2 mov edx,esi

c0023e35: ec in al,dx

c0023e36: 83 ec 0c sub esp,0xc

c0023e39: 0f b6 c0 movzx eax,al

c0023e3c: 50 push eax

c0023e3d: e8 83 11 00 00 call c0024fc5 <input\_putc>

c0023e42: 83 c4 10 add esp,0x10

c0023e45: e8 27 12 00 00 call c0025071 <input\_full>

c0023e4a: 84 c0 test al,al

c0023e4c: 75 1e jne c0023e6c <serial\_interrupt+0x50>

c0023e4e: 89 da mov edx,ebx

c0023e50: ec in al,dx

c0023e51: a8 01 test al,0x1

c0023e53: 75 de jne c0023e33 <serial\_interrupt+0x17>

c0023e55: eb 15 jmp c0023e6c <serial\_interrupt+0x50>

c0023e57: 83 ec 0c sub esp,0xc

c0023e5a: 68 00 b4 03 c0 push 0xc003b400

c0023e5f: e8 4e 14 00 00 call c00252b2 <intq\_getc>

c0023e64: 89 f2 mov edx,esi

c0023e66: ee out dx,al

c0023e67: 83 c4 10 add esp,0x10

c0023e6a: eb 0a jmp c0023e76 <serial\_interrupt+0x5a>

c0023e6c: bb fd 03 00 00 mov ebx,0x3fd

c0023e71: be f8 03 00 00 mov esi,0x3f8

c0023e76: 83 ec 0c sub esp,0xc

c0023e79: 68 00 b4 03 c0 push 0xc003b400

c0023e7e: e8 58 12 00 00 call c00250db <intq\_empty>

c0023e83: 83 c4 10 add esp,0x10

c0023e86: 84 c0 test al,al

c0023e88: 75 07 jne c0023e91 <serial\_interrupt+0x75>

c0023e8a: 89 da mov edx,ebx

c0023e8c: ec in al,dx

c0023e8d: a8 20 test al,0x20

c0023e8f: 75 c6 jne c0023e57 <serial\_interrupt+0x3b>

c0023e91: e8 25 ff ff ff call c0023dbb <write\_ier>

c0023e96: 83 c4 04 add esp,0x4

c0023e99: 5b pop ebx

c0023e9a: 5e pop esi

c0023e9b: c3 ret

c0023e9c <putc\_poll>:

c0023e9c: 53 push ebx

c0023e9d: 83 ec 08 sub esp,0x8

c0023ea0: 89 c3 mov ebx,eax

c0023ea2: e8 9e d5 ff ff call c0021445 <intr\_get\_level>

c0023ea7: 85 c0 test eax,eax

c0023ea9: 74 21 je c0023ecc <putc\_poll+0x30>

c0023eab: 83 ec 0c sub esp,0xc

c0023eae: 68 c4 f3 02 c0 push 0xc002f3c4

c0023eb3: 68 83 ed 02 c0 push 0xc002ed83

c0023eb8: 68 7c da 02 c0 push 0xc002da7c

c0023ebd: 68 c9 00 00 00 push 0xc9

c0023ec2: 68 4d fd 02 c0 push 0xc002fd4d

c0023ec7: e8 71 3a 00 00 call c002793d <debug\_panic>

c0023ecc: ba fd 03 00 00 mov edx,0x3fd

c0023ed1: ec in al,dx

c0023ed2: a8 20 test al,0x20

c0023ed4: 74 fb je c0023ed1 <putc\_poll+0x35>

c0023ed6: ba f8 03 00 00 mov edx,0x3f8

c0023edb: 89 d8 mov eax,ebx

c0023edd: ee out dx,al

c0023ede: 83 c4 08 add esp,0x8

c0023ee1: 5b pop ebx

c0023ee2: c3 ret

c0023ee3 <serial\_init\_queue>:

c0023ee3: 53 push ebx

c0023ee4: 83 ec 08 sub esp,0x8

c0023ee7: 83 3d 70 b4 03 c0 00 cmp DWORD PTR ds:0xc003b470,0x0

c0023eee: 75 05 jne c0023ef5 <serial\_init\_queue+0x12>

c0023ef0: e8 39 fe ff ff call c0023d2e <init\_poll>

c0023ef5: 83 3d 70 b4 03 c0 01 cmp DWORD PTR ds:0xc003b470,0x1

c0023efc: 74 1e je c0023f1c <serial\_init\_queue+0x39>

c0023efe: 83 ec 0c sub esp,0xc

c0023f01: 68 64 fd 02 c0 push 0xc002fd64

c0023f06: 68 83 ed 02 c0 push 0xc002ed83

c0023f0b: 68 a0 da 02 c0 push 0xc002daa0

c0023f10: 6a 58 push 0x58

c0023f12: 68 4d fd 02 c0 push 0xc002fd4d

c0023f17: e8 21 3a 00 00 call c002793d <debug\_panic>

c0023f1c: 83 ec 04 sub esp,0x4

c0023f1f: 68 71 fd 02 c0 push 0xc002fd71

c0023f24: 68 1c 3e 02 c0 push 0xc0023e1c

c0023f29: 6a 24 push 0x24

c0023f2b: e8 f1 d6 ff ff call c0021621 <intr\_register\_ext>

c0023f30: c7 05 70 b4 03 c0 02 mov DWORD PTR ds:0xc003b470,0x2

c0023f37: 00 00 00

c0023f3a: e8 43 d5 ff ff call c0021482 <intr\_disable>

c0023f3f: 89 c3 mov ebx,eax

c0023f41: e8 75 fe ff ff call c0023dbb <write\_ier>

c0023f46: 89 1c 24 mov DWORD PTR [esp],ebx

c0023f49: e8 3b d5 ff ff call c0021489 <intr\_set\_level>

c0023f4e: 83 c4 18 add esp,0x18

c0023f51: 5b pop ebx

c0023f52: c3 ret

c0023f53 <serial\_putc>:

c0023f53: 56 push esi

c0023f54: 53 push ebx

c0023f55: 83 ec 04 sub esp,0x4

c0023f58: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0023f5c: e8 21 d5 ff ff call c0021482 <intr\_disable>

c0023f61: 89 c6 mov esi,eax

c0023f63: a1 70 b4 03 c0 mov eax,ds:0xc003b470

c0023f68: 83 f8 02 cmp eax,0x2

c0023f6b: 74 13 je c0023f80 <serial\_putc+0x2d>

c0023f6d: 85 c0 test eax,eax

c0023f6f: 75 05 jne c0023f76 <serial\_putc+0x23>

c0023f71: e8 b8 fd ff ff call c0023d2e <init\_poll>

c0023f76: 0f b6 c3 movzx eax,bl

c0023f79: e8 1e ff ff ff call c0023e9c <putc\_poll>

c0023f7e: eb 49 jmp c0023fc9 <serial\_putc+0x76>

c0023f80: 85 f6 test esi,esi

c0023f82: 75 2c jne c0023fb0 <serial\_putc+0x5d>

c0023f84: 83 ec 0c sub esp,0xc

c0023f87: 68 00 b4 03 c0 push 0xc003b400

c0023f8c: e8 87 11 00 00 call c0025118 <intq\_full>

c0023f91: 83 c4 10 add esp,0x10

c0023f94: 84 c0 test al,al

c0023f96: 74 18 je c0023fb0 <serial\_putc+0x5d>

c0023f98: 83 ec 0c sub esp,0xc

c0023f9b: 68 00 b4 03 c0 push 0xc003b400

c0023fa0: e8 0d 13 00 00 call c00252b2 <intq\_getc>

c0023fa5: 0f b6 c0 movzx eax,al

c0023fa8: e8 ef fe ff ff call c0023e9c <putc\_poll>

c0023fad: 83 c4 10 add esp,0x10

c0023fb0: 83 ec 08 sub esp,0x8

c0023fb3: 0f b6 db movzx ebx,bl

c0023fb6: 53 push ebx

c0023fb7: 68 00 b4 03 c0 push 0xc003b400

c0023fbc: e8 a5 13 00 00 call c0025366 <intq\_putc>

c0023fc1: e8 f5 fd ff ff call c0023dbb <write\_ier>

c0023fc6: 83 c4 10 add esp,0x10

c0023fc9: 83 ec 0c sub esp,0xc

c0023fcc: 56 push esi

c0023fcd: e8 b7 d4 ff ff call c0021489 <intr\_set\_level>

c0023fd2: 83 c4 14 add esp,0x14

c0023fd5: 5b pop ebx

c0023fd6: 5e pop esi

c0023fd7: c3 ret

c0023fd8 <serial\_flush>:

c0023fd8: 53 push ebx

c0023fd9: 83 ec 08 sub esp,0x8

c0023fdc: e8 a1 d4 ff ff call c0021482 <intr\_disable>

c0023fe1: 89 c3 mov ebx,eax

c0023fe3: eb 18 jmp c0023ffd <serial\_flush+0x25>

c0023fe5: 83 ec 0c sub esp,0xc

c0023fe8: 68 00 b4 03 c0 push 0xc003b400

c0023fed: e8 c0 12 00 00 call c00252b2 <intq\_getc>

c0023ff2: 0f b6 c0 movzx eax,al

c0023ff5: e8 a2 fe ff ff call c0023e9c <putc\_poll>

c0023ffa: 83 c4 10 add esp,0x10

c0023ffd: 83 ec 0c sub esp,0xc

c0024000: 68 00 b4 03 c0 push 0xc003b400

c0024005: e8 d1 10 00 00 call c00250db <intq\_empty>

c002400a: 83 c4 10 add esp,0x10

c002400d: 84 c0 test al,al

c002400f: 74 d4 je c0023fe5 <serial\_flush+0xd>

c0024011: 83 ec 0c sub esp,0xc

c0024014: 53 push ebx

c0024015: e8 6f d4 ff ff call c0021489 <intr\_set\_level>

c002401a: 83 c4 18 add esp,0x18

c002401d: 5b pop ebx

c002401e: c3 ret

c002401f <serial\_notify>:

c002401f: 83 ec 0c sub esp,0xc

c0024022: e8 1e d4 ff ff call c0021445 <intr\_get\_level>

c0024027: 85 c0 test eax,eax

c0024029: 74 21 je c002404c <serial\_notify+0x2d>

c002402b: 83 ec 0c sub esp,0xc

c002402e: 68 c4 f3 02 c0 push 0xc002f3c4

c0024033: 68 83 ed 02 c0 push 0xc002ed83

c0024038: 68 6c da 02 c0 push 0xc002da6c

c002403d: 68 96 00 00 00 push 0x96

c0024042: 68 4d fd 02 c0 push 0xc002fd4d

c0024047: e8 f1 38 00 00 call c002793d <debug\_panic>

c002404c: 83 3d 70 b4 03 c0 02 cmp DWORD PTR ds:0xc003b470,0x2

c0024053: 75 05 jne c002405a <serial\_notify+0x3b>

c0024055: e8 61 fd ff ff call c0023dbb <write\_ier>

c002405a: 83 c4 0c add esp,0xc

c002405d: c3 ret

c002405e <check\_sector>:

c002405e: 8b 48 1c mov ecx,DWORD PTR [eax+0x1c]

c0024061: 39 d1 cmp ecx,edx

c0024063: 77 1f ja c0024084 <check\_sector+0x26>

c0024065: 83 ec 10 sub esp,0x10

c0024068: 51 push ecx

c0024069: 52 push edx

c002406a: 83 c0 08 add eax,0x8

c002406d: 50 push eax

c002406e: 68 78 fd 02 c0 push 0xc002fd78

c0024073: 68 d0 da 02 c0 push 0xc002dad0

c0024078: 6a 78 push 0x78

c002407a: 68 06 fe 02 c0 push 0xc002fe06

c002407f: e8 b9 38 00 00 call c002793d <debug\_panic>

c0024084: f3 c3 repz ret

c0024086 <block\_type\_name>:

c0024086: 83 ec 0c sub esp,0xc

c0024089: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002408d: 83 f8 05 cmp eax,0x5

c0024090: 76 1e jbe c00240b0 <block\_type\_name+0x2a>

c0024092: 83 ec 0c sub esp,0xc

c0024095: 68 1c fe 02 c0 push 0xc002fe1c

c002409a: 68 83 ed 02 c0 push 0xc002ed83

c002409f: 68 18 db 02 c0 push 0xc002db18

c00240a4: 6a 2f push 0x2f

c00240a6: 68 06 fe 02 c0 push 0xc002fe06

c00240ab: e8 8d 38 00 00 call c002793d <debug\_panic>

c00240b0: 8b 04 85 00 db 02 c0 mov eax,DWORD PTR [eax\*4-0x3ffd2500]

c00240b7: 83 c4 0c add esp,0xc

c00240ba: c3 ret

c00240bb <block\_get\_role>:

c00240bb: 83 ec 0c sub esp,0xc

c00240be: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00240c2: 83 f8 03 cmp eax,0x3

c00240c5: 76 1e jbe c00240e5 <block\_get\_role+0x2a>

c00240c7: 83 ec 0c sub esp,0xc

c00240ca: 68 2d fe 02 c0 push 0xc002fe2d

c00240cf: 68 83 ed 02 c0 push 0xc002ed83

c00240d4: 68 f0 da 02 c0 push 0xc002daf0

c00240d9: 6a 3e push 0x3e

c00240db: 68 06 fe 02 c0 push 0xc002fe06

c00240e0: e8 58 38 00 00 call c002793d <debug\_panic>

c00240e5: 8b 04 85 74 b4 03 c0 mov eax,DWORD PTR [eax\*4-0x3ffc4b8c]

c00240ec: 83 c4 0c add esp,0xc

c00240ef: c3 ret

c00240f0 <block\_set\_role>:

c00240f0: 83 ec 0c sub esp,0xc

c00240f3: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00240f7: 83 f8 03 cmp eax,0x3

c00240fa: 76 1e jbe c002411a <block\_set\_role+0x2a>

c00240fc: 83 ec 0c sub esp,0xc

c00240ff: 68 2d fe 02 c0 push 0xc002fe2d

c0024104: 68 83 ed 02 c0 push 0xc002ed83

c0024109: 68 e0 da 02 c0 push 0xc002dae0

c002410e: 6a 46 push 0x46

c0024110: 68 06 fe 02 c0 push 0xc002fe06

c0024115: e8 23 38 00 00 call c002793d <debug\_panic>

c002411a: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002411e: 89 14 85 74 b4 03 c0 mov DWORD PTR [eax\*4-0x3ffc4b8c],edx

c0024125: 83 c4 0c add esp,0xc

c0024128: c3 ret

c0024129 <block\_first>:

c0024129: 53 push ebx

c002412a: 83 ec 14 sub esp,0x14

c002412d: 68 e8 9a 03 c0 push 0xc0039ae8

c0024132: e8 f0 38 00 00 call c0027a27 <list\_begin>

c0024137: 89 c3 mov ebx,eax

c0024139: c7 04 24 e8 9a 03 c0 mov DWORD PTR [esp],0xc0039ae8

c0024140: e8 58 39 00 00 call c0027a9d <list\_end>

c0024145: 39 c3 cmp ebx,eax

c0024147: b8 00 00 00 00 mov eax,0x0

c002414c: 0f 45 c3 cmovne eax,ebx

c002414f: 83 c4 18 add esp,0x18

c0024152: 5b pop ebx

c0024153: c3 ret

c0024154 <block\_next>:

c0024154: 53 push ebx

c0024155: 83 ec 14 sub esp,0x14

c0024158: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002415c: e8 f6 38 00 00 call c0027a57 <list\_next>

c0024161: 89 c3 mov ebx,eax

c0024163: c7 04 24 e8 9a 03 c0 mov DWORD PTR [esp],0xc0039ae8

c002416a: e8 2e 39 00 00 call c0027a9d <list\_end>

c002416f: 39 c3 cmp ebx,eax

c0024171: b8 00 00 00 00 mov eax,0x0

c0024176: 0f 45 c3 cmovne eax,ebx

c0024179: 83 c4 18 add esp,0x18

c002417c: 5b pop ebx

c002417d: c3 ret

c002417e <block\_get\_by\_name>:

c002417e: 56 push esi

c002417f: 53 push ebx

c0024180: 83 ec 10 sub esp,0x10

c0024183: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c0024187: 68 e8 9a 03 c0 push 0xc0039ae8

c002418c: e8 96 38 00 00 call c0027a27 <list\_begin>

c0024191: 89 c3 mov ebx,eax

c0024193: 83 c4 10 add esp,0x10

c0024196: eb 22 jmp c00241ba <block\_get\_by\_name+0x3c>

c0024198: 8d 43 08 lea eax,[ebx+0x8]

c002419b: 83 ec 08 sub esp,0x8

c002419e: 50 push eax

c002419f: 56 push esi

c00241a0: e8 2f 2a 00 00 call c0026bd4 <strcmp>

c00241a5: 83 c4 10 add esp,0x10

c00241a8: 85 c0 test eax,eax

c00241aa: 74 29 je c00241d5 <block\_get\_by\_name+0x57>

c00241ac: 83 ec 0c sub esp,0xc

c00241af: 53 push ebx

c00241b0: e8 a2 38 00 00 call c0027a57 <list\_next>

c00241b5: 89 c3 mov ebx,eax

c00241b7: 83 c4 10 add esp,0x10

c00241ba: 83 ec 0c sub esp,0xc

c00241bd: 68 e8 9a 03 c0 push 0xc0039ae8

c00241c2: e8 d6 38 00 00 call c0027a9d <list\_end>

c00241c7: 83 c4 10 add esp,0x10

c00241ca: 39 c3 cmp ebx,eax

c00241cc: 75 ca jne c0024198 <block\_get\_by\_name+0x1a>

c00241ce: b8 00 00 00 00 mov eax,0x0

c00241d3: eb 02 jmp c00241d7 <block\_get\_by\_name+0x59>

c00241d5: 89 d8 mov eax,ebx

c00241d7: 83 c4 04 add esp,0x4

c00241da: 5b pop ebx

c00241db: 5e pop esi

c00241dc: c3 ret

c00241dd <block\_read>:

c00241dd: 56 push esi

c00241de: 53 push ebx

c00241df: 83 ec 04 sub esp,0x4

c00241e2: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00241e6: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c00241ea: 89 f2 mov edx,esi

c00241ec: 89 d8 mov eax,ebx

c00241ee: e8 6b fe ff ff call c002405e <check\_sector>

c00241f3: 83 ec 04 sub esp,0x4

c00241f6: 8b 43 20 mov eax,DWORD PTR [ebx+0x20]

c00241f9: ff 74 24 1c push DWORD PTR [esp+0x1c]

c00241fd: 56 push esi

c00241fe: ff 73 24 push DWORD PTR [ebx+0x24]

c0024201: ff 10 call DWORD PTR [eax]

c0024203: 83 43 28 01 add DWORD PTR [ebx+0x28],0x1

c0024207: 83 53 2c 00 adc DWORD PTR [ebx+0x2c],0x0

c002420b: 83 c4 14 add esp,0x14

c002420e: 5b pop ebx

c002420f: 5e pop esi

c0024210: c3 ret

c0024211 <block\_write>:

c0024211: 56 push esi

c0024212: 53 push ebx

c0024213: 83 ec 04 sub esp,0x4

c0024216: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002421a: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c002421e: 89 f2 mov edx,esi

c0024220: 89 d8 mov eax,ebx

c0024222: e8 37 fe ff ff call c002405e <check\_sector>

c0024227: 83 7b 18 05 cmp DWORD PTR [ebx+0x18],0x5

c002422b: 75 21 jne c002424e <block\_write+0x3d>

c002422d: 83 ec 0c sub esp,0xc

c0024230: 68 43 fe 02 c0 push 0xc002fe43

c0024235: 68 83 ed 02 c0 push 0xc002ed83

c002423a: 68 c4 da 02 c0 push 0xc002dac4

c002423f: 68 93 00 00 00 push 0x93

c0024244: 68 06 fe 02 c0 push 0xc002fe06

c0024249: e8 ef 36 00 00 call c002793d <debug\_panic>

c002424e: 83 ec 04 sub esp,0x4

c0024251: 8b 43 20 mov eax,DWORD PTR [ebx+0x20]

c0024254: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0024258: 56 push esi

c0024259: ff 73 24 push DWORD PTR [ebx+0x24]

c002425c: ff 50 04 call DWORD PTR [eax+0x4]

c002425f: 83 43 30 01 add DWORD PTR [ebx+0x30],0x1

c0024263: 83 53 34 00 adc DWORD PTR [ebx+0x34],0x0

c0024267: 83 c4 14 add esp,0x14

c002426a: 5b pop ebx

c002426b: 5e pop esi

c002426c: c3 ret

c002426d <block\_size>:

c002426d: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0024271: 8b 40 1c mov eax,DWORD PTR [eax+0x1c]

c0024274: c3 ret

c0024275 <block\_name>:

c0024275: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0024279: 83 c0 08 add eax,0x8

c002427c: c3 ret

c002427d <block\_type>:

c002427d: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0024281: 8b 40 18 mov eax,DWORD PTR [eax+0x18]

c0024284: c3 ret

c0024285 <block\_print\_stats>:

c0024285: 57 push edi

c0024286: 56 push esi

c0024287: 53 push ebx

c0024288: be 74 b4 03 c0 mov esi,0xc003b474

c002428d: bf 84 b4 03 c0 mov edi,0xc003b484

c0024292: 8b 1e mov ebx,DWORD PTR [esi]

c0024294: 85 db test ebx,ebx

c0024296: 74 2c je c00242c4 <block\_print\_stats+0x3f>

c0024298: 83 ec 0c sub esp,0xc

c002429b: ff 73 18 push DWORD PTR [ebx+0x18]

c002429e: e8 e3 fd ff ff call c0024086 <block\_type\_name>

c00242a3: 83 c4 0c add esp,0xc

c00242a6: ff 73 34 push DWORD PTR [ebx+0x34]

c00242a9: ff 73 30 push DWORD PTR [ebx+0x30]

c00242ac: ff 73 2c push DWORD PTR [ebx+0x2c]

c00242af: ff 73 28 push DWORD PTR [ebx+0x28]

c00242b2: 50 push eax

c00242b3: 83 c3 08 add ebx,0x8

c00242b6: 53 push ebx

c00242b7: 68 ac fd 02 c0 push 0xc002fdac

c00242bc: e8 04 1a 00 00 call c0025cc5 <printf>

c00242c1: 83 c4 20 add esp,0x20

c00242c4: 83 c6 04 add esi,0x4

c00242c7: 39 fe cmp esi,edi

c00242c9: 75 c7 jne c0024292 <block\_print\_stats+0xd>

c00242cb: 5b pop ebx

c00242cc: 5e pop esi

c00242cd: 5f pop edi

c00242ce: c3 ret

c00242cf <block\_register>:

c00242cf: 55 push ebp

c00242d0: 57 push edi

c00242d1: 56 push esi

c00242d2: 53 push ebx

c00242d3: 83 ec 18 sub esp,0x18

c00242d6: 8b 74 24 34 mov esi,DWORD PTR [esp+0x34]

c00242da: 8b 7c 24 38 mov edi,DWORD PTR [esp+0x38]

c00242de: 6a 38 push 0x38

c00242e0: e8 0f ee ff ff call c00230f4 <malloc>

c00242e5: 83 c4 10 add esp,0x10

c00242e8: 85 c0 test eax,eax

c00242ea: 75 19 jne c0024305 <block\_register+0x36>

c00242ec: 68 d0 fd 02 c0 push 0xc002fdd0

c00242f1: 68 b4 da 02 c0 push 0xc002dab4

c00242f6: 68 d3 00 00 00 push 0xd3

c00242fb: 68 06 fe 02 c0 push 0xc002fe06

c0024300: e8 38 36 00 00 call c002793d <debug\_panic>

c0024305: 89 c3 mov ebx,eax

c0024307: 83 ec 08 sub esp,0x8

c002430a: 50 push eax

c002430b: 68 e8 9a 03 c0 push 0xc0039ae8

c0024310: e8 73 3b 00 00 call c0027e88 <list\_push\_back>

c0024315: 8d 6b 08 lea ebp,[ebx+0x8]

c0024318: 83 c4 0c add esp,0xc

c002431b: 6a 10 push 0x10

c002431d: ff 74 24 28 push DWORD PTR [esp+0x28]

c0024321: 55 push ebp

c0024322: e8 2a 2d 00 00 call c0027051 <strlcpy>

c0024327: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

c002432b: 89 43 18 mov DWORD PTR [ebx+0x18],eax

c002432e: 89 7b 1c mov DWORD PTR [ebx+0x1c],edi

c0024331: 8b 44 24 40 mov eax,DWORD PTR [esp+0x40]

c0024335: 89 43 20 mov DWORD PTR [ebx+0x20],eax

c0024338: 8b 44 24 44 mov eax,DWORD PTR [esp+0x44]

c002433c: 89 43 24 mov DWORD PTR [ebx+0x24],eax

c002433f: c7 43 28 00 00 00 00 mov DWORD PTR [ebx+0x28],0x0

c0024346: c7 43 2c 00 00 00 00 mov DWORD PTR [ebx+0x2c],0x0

c002434d: c7 43 30 00 00 00 00 mov DWORD PTR [ebx+0x30],0x0

c0024354: c7 43 34 00 00 00 00 mov DWORD PTR [ebx+0x34],0x0

c002435b: 83 c4 0c add esp,0xc

c002435e: 57 push edi

c002435f: 55 push ebp

c0024360: 68 60 fe 02 c0 push 0xc002fe60

c0024365: e8 5b 19 00 00 call c0025cc5 <printf>

c002436a: 83 c4 08 add esp,0x8

c002436d: 8b 43 1c mov eax,DWORD PTR [ebx+0x1c]

c0024370: ba 00 00 00 00 mov edx,0x0

c0024375: 0f a4 c2 09 shld edx,eax,0x9

c0024379: c1 e0 09 shl eax,0x9

c002437c: 52 push edx

c002437d: 50 push eax

c002437e: e8 5a 22 00 00 call c00265dd <print\_human\_readable\_si

ze>

c0024383: c7 04 24 29 00 00 00 mov DWORD PTR [esp],0x29

c002438a: e8 32 51 00 00 call c00294c1 <putchar>

c002438f: 83 c4 10 add esp,0x10

c0024392: 85 f6 test esi,esi

c0024394: 74 11 je c00243a7 <block\_register+0xd8>

c0024396: 83 ec 08 sub esp,0x8

c0024399: 56 push esi

c002439a: 68 72 fe 02 c0 push 0xc002fe72

c002439f: e8 21 19 00 00 call c0025cc5 <printf>

c00243a4: 83 c4 10 add esp,0x10

c00243a7: 83 ec 0c sub esp,0xc

c00243aa: 6a 0a push 0xa

c00243ac: e8 10 51 00 00 call c00294c1 <putchar>

c00243b1: 89 d8 mov eax,ebx

c00243b3: 83 c4 1c add esp,0x1c

c00243b6: 5b pop ebx

c00243b7: 5e pop esi

c00243b8: 5f pop edi

c00243b9: 5d pop ebp

c00243ba: c3 ret

c00243bb <partition\_read>:

c00243bb: 83 ec 10 sub esp,0x10

c00243be: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c00243c2: ff 74 24 1c push DWORD PTR [esp+0x1c]

c00243c6: 8b 42 04 mov eax,DWORD PTR [edx+0x4]

c00243c9: 03 44 24 1c add eax,DWORD PTR [esp+0x1c]

c00243cd: 50 push eax

c00243ce: ff 32 push DWORD PTR [edx]

c00243d0: e8 08 fe ff ff call c00241dd <block\_read>

c00243d5: 83 c4 1c add esp,0x1c

c00243d8: c3 ret

c00243d9 <read\_partition\_table>:

c00243d9: 55 push ebp

c00243da: 57 push edi

c00243db: 56 push esi

c00243dc: 53 push ebx

c00243dd: 81 ec c8 00 00 00 sub esp,0xc8

c00243e3: 89 c5 mov ebp,eax

c00243e5: 89 d3 mov ebx,edx

c00243e7: 89 4c 24 0c mov DWORD PTR [esp+0xc],ecx

c00243eb: 50 push eax

c00243ec: e8 7c fe ff ff call c002426d <block\_size>

c00243f1: 83 c4 10 add esp,0x10

c00243f4: 39 d8 cmp eax,ebx

c00243f6: 77 20 ja c0024418 <read\_partition\_table+0x

3f>

c00243f8: 83 ec 0c sub esp,0xc

c00243fb: 55 push ebp

c00243fc: e8 74 fe ff ff call c0024275 <block\_name>

c0024401: 83 c4 0c add esp,0xc

c0024404: 53 push ebx

c0024405: 50 push eax

c0024406: 68 1c 03 03 c0 push 0xc003031c

c002440b: e8 b5 18 00 00 call c0025cc5 <printf>

c0024410: 83 c4 10 add esp,0x10

c0024413: e9 f6 02 00 00 jmp c002470e <read\_partition\_table+0x

335>

c0024418: 83 ec 0c sub esp,0xc

c002441b: 68 00 02 00 00 push 0x200

c0024420: e8 cf ec ff ff call c00230f4 <malloc>

c0024425: 89 c7 mov edi,eax

c0024427: 83 c4 10 add esp,0x10

c002442a: 85 c0 test eax,eax

c002442c: 75 16 jne c0024444 <read\_partition\_table+0x

6b>

c002442e: 68 54 03 03 c0 push 0xc0030354

c0024433: 68 50 df 02 c0 push 0xc002df50

c0024438: 6a 5b push 0x5b

c002443a: 68 8b fe 02 c0 push 0xc002fe8b

c002443f: e8 f9 34 00 00 call c002793d <debug\_panic>

c0024444: 83 ec 04 sub esp,0x4

c0024447: 50 push eax

c0024448: 6a 00 push 0x0

c002444a: 55 push ebp

c002444b: e8 8d fd ff ff call c00241dd <block\_read>

c0024450: 83 c4 10 add esp,0x10

c0024453: 66 81 bf fe 01 00 00 cmp WORD PTR [edi+0x1fe],0xaa55

c002445a: 55 aa

c002445c: 74 4e je c00244ac <read\_partition\_table+0x

d3>

c002445e: 83 3c 24 00 cmp DWORD PTR [esp],0x0

c0024462: 75 1c jne c0024480 <read\_partition\_table+0x

a7>

c0024464: 83 ec 0c sub esp,0xc

c0024467: 55 push ebp

c0024468: e8 08 fe ff ff call c0024275 <block\_name>

c002446d: 83 c4 08 add esp,0x8

c0024470: 50 push eax

c0024471: 68 84 03 03 c0 push 0xc0030384

c0024476: e8 4a 18 00 00 call c0025cc5 <printf>

c002447b: 83 c4 10 add esp,0x10

c002447e: eb 1b jmp c002449b <read\_partition\_table+0x

c2>

c0024480: 83 ec 0c sub esp,0xc

c0024483: 55 push ebp

c0024484: e8 ec fd ff ff call c0024275 <block\_name>

c0024489: 83 c4 0c add esp,0xc

c002448c: 53 push ebx

c002448d: 50 push eax

c002448e: 68 ac 03 03 c0 push 0xc00303ac

c0024493: e8 2d 18 00 00 call c0025cc5 <printf>

c0024498: 83 c4 10 add esp,0x10

c002449b: 83 ec 0c sub esp,0xc

c002449e: 57 push edi

c002449f: e8 e1 ed ff ff call c0023285 <free>

c00244a4: 83 c4 10 add esp,0x10

c00244a7: e9 62 02 00 00 jmp c002470e <read\_partition\_table+0x

335>

c00244ac: 8d b7 c6 01 00 00 lea esi,[edi+0x1c6]

c00244b2: 8d 87 06 02 00 00 lea eax,[edi+0x206]

c00244b8: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c00244bc: 89 7c 24 0c mov DWORD PTR [esp+0xc],edi

c00244c0: 89 5c 24 10 mov DWORD PTR [esp+0x10],ebx

c00244c4: 89 74 24 04 mov DWORD PTR [esp+0x4],esi

c00244c8: 8b 5e 04 mov ebx,DWORD PTR [esi+0x4]

c00244cb: 85 db test ebx,ebx

c00244cd: 0f 84 1e 02 00 00 je c00246f1 <read\_partition\_table+0x

318>

c00244d3: 0f b6 7e fc movzx edi,BYTE PTR [esi-0x4]

c00244d7: 89 f8 mov eax,edi

c00244d9: 84 c0 test al,al

c00244db: 0f 84 10 02 00 00 je c00246f1 <read\_partition\_table+0x

318>

c00244e1: 3c 0f cmp al,0xf

c00244e3: 0f 94 c2 sete dl

c00244e6: 3c c5 cmp al,0xc5

c00244e8: 0f 94 c0 sete al

c00244eb: 08 c2 or dl,al

c00244ed: 75 09 jne c00244f8 <read\_partition\_table+0x

11f>

c00244ef: 89 f8 mov eax,edi

c00244f1: 83 e0 7f and eax,0x7f

c00244f4: 3c 05 cmp al,0x5

c00244f6: 75 68 jne c0024560 <read\_partition\_table+0x

187>

c00244f8: 83 ec 0c sub esp,0xc

c00244fb: 55 push ebp

c00244fc: e8 74 fd ff ff call c0024275 <block\_name>

c0024501: 83 c4 0c add esp,0xc

c0024504: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c0024508: 53 push ebx

c0024509: 50 push eax

c002450a: 68 e0 03 03 c0 push 0xc00303e0

c002450f: e8 b1 17 00 00 call c0025cc5 <printf>

c0024514: 83 c4 10 add esp,0x10

c0024517: 85 db test ebx,ebx

c0024519: 75 21 jne c002453c <read\_partition\_table+0x

163>

c002451b: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002451f: 8b 10 mov edx,DWORD PTR [eax]

c0024521: 83 ec 0c sub esp,0xc

c0024524: ff b4 24 dc 00 00 00 push DWORD PTR [esp+0xdc]

c002452b: 89 d1 mov ecx,edx

c002452d: 89 e8 mov eax,ebp

c002452f: e8 a5 fe ff ff call c00243d9 <read\_partition\_table>

c0024534: 83 c4 10 add esp,0x10

c0024537: e9 b5 01 00 00 jmp c00246f1 <read\_partition\_table+0x

318>

c002453c: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0024540: 8b 0c 24 mov ecx,DWORD PTR [esp]

c0024543: 89 ca mov edx,ecx

c0024545: 03 10 add edx,DWORD PTR [eax]

c0024547: 83 ec 0c sub esp,0xc

c002454a: ff b4 24 dc 00 00 00 push DWORD PTR [esp+0xdc]

c0024551: 89 e8 mov eax,ebp

c0024553: e8 81 fe ff ff call c00243d9 <read\_partition\_table>

c0024558: 83 c4 10 add esp,0x10

c002455b: e9 91 01 00 00 jmp c00246f1 <read\_partition\_table+0x

318>

c0024560: 8b 84 24 d0 00 00 00 mov eax,DWORD PTR [esp+0xd0]

c0024567: 8b 00 mov eax,DWORD PTR [eax]

c0024569: 83 c0 01 add eax,0x1

c002456c: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

c0024570: 8b 8c 24 d0 00 00 00 mov ecx,DWORD PTR [esp+0xd0]

c0024577: 89 01 mov DWORD PTR [ecx],eax

c0024579: 8b 4c 24 04 mov ecx,DWORD PTR [esp+0x4]

c002457d: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0024581: 03 01 add eax,DWORD PTR [ecx]

c0024583: 89 44 24 04 mov DWORD PTR [esp+0x4],eax

c0024587: 83 ec 0c sub esp,0xc

c002458a: 55 push ebp

c002458b: e8 dd fc ff ff call c002426d <block\_size>

c0024590: 83 c4 10 add esp,0x10

c0024593: 39 44 24 04 cmp DWORD PTR [esp+0x4],eax

c0024597: 72 24 jb c00245bd <read\_partition\_table+0x

1e4>

c0024599: 83 ec 0c sub esp,0xc

c002459c: 55 push ebp

c002459d: e8 d3 fc ff ff call c0024275 <block\_name>

c00245a2: ff 74 24 14 push DWORD PTR [esp+0x14]

c00245a6: ff 74 24 28 push DWORD PTR [esp+0x28]

c00245aa: 50 push eax

c00245ab: 68 08 04 03 c0 push 0xc0030408

c00245b0: e8 10 17 00 00 call c0025cc5 <printf>

c00245b5: 83 c4 20 add esp,0x20

c00245b8: e9 34 01 00 00 jmp c00246f1 <read\_partition\_table+0x

318>

c00245bd: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c00245c1: 01 d8 add eax,ebx

c00245c3: 89 44 24 18 mov DWORD PTR [esp+0x18],eax

c00245c7: 72 12 jb c00245db <read\_partition\_table+0x

202>

c00245c9: 83 ec 0c sub esp,0xc

c00245cc: 55 push ebp

c00245cd: e8 9b fc ff ff call c002426d <block\_size>

c00245d2: 83 c4 10 add esp,0x10

c00245d5: 39 44 24 18 cmp DWORD PTR [esp+0x18],eax

c00245d9: 76 31 jbe c002460c <read\_partition\_table+0x

233>

c00245db: 83 ec 0c sub esp,0xc

c00245de: 55 push ebp

c00245df: e8 89 fc ff ff call c002426d <block\_size>

c00245e4: 89 c3 mov ebx,eax

c00245e6: 89 2c 24 mov DWORD PTR [esp],ebp

c00245e9: e8 87 fc ff ff call c0024275 <block\_name>

c00245ee: 89 1c 24 mov DWORD PTR [esp],ebx

c00245f1: ff 74 24 28 push DWORD PTR [esp+0x28]

c00245f5: ff 74 24 28 push DWORD PTR [esp+0x28]

c00245f9: 50 push eax

c00245fa: 68 40 04 03 c0 push 0xc0030440

c00245ff: e8 c1 16 00 00 call c0025cc5 <printf>

c0024604: 83 c4 20 add esp,0x20

c0024607: e9 e5 00 00 00 jmp c00246f1 <read\_partition\_table+0x

318>

c002460c: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

c0024613: 00

c0024614: 89 f8 mov eax,edi

c0024616: 3c 20 cmp al,0x20

c0024618: 74 28 je c0024642 <read\_partition\_table+0x

269>

c002461a: c7 44 24 1c 01 00 00 mov DWORD PTR [esp+0x1c],0x1

c0024621: 00

c0024622: 3c 21 cmp al,0x21

c0024624: 74 1c je c0024642 <read\_partition\_table+0x

269>

c0024626: c7 44 24 1c 02 00 00 mov DWORD PTR [esp+0x1c],0x2

c002462d: 00

c002462e: 3c 22 cmp al,0x22

c0024630: 74 10 je c0024642 <read\_partition\_table+0x

269>

c0024632: 3c 23 cmp al,0x23

c0024634: 0f 95 c0 setne al

c0024637: 0f b6 c0 movzx eax,al

c002463a: 8d 44 00 03 lea eax,[eax+eax\*1+0x3]

c002463e: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c0024642: 83 ec 0c sub esp,0xc

c0024645: 6a 08 push 0x8

c0024647: e8 a8 ea ff ff call c00230f4 <malloc>

c002464c: 89 44 24 28 mov DWORD PTR [esp+0x28],eax

c0024650: 83 c4 10 add esp,0x10

c0024653: 85 c0 test eax,eax

c0024655: 75 19 jne c0024670 <read\_partition\_table+0x

297>

c0024657: 68 74 04 03 c0 push 0xc0030474

c002465c: 68 40 df 02 c0 push 0xc002df40

c0024661: 68 b6 00 00 00 push 0xb6

c0024666: 68 8b fe 02 c0 push 0xc002fe8b

c002466b: e8 cd 32 00 00 call c002793d <debug\_panic>

c0024670: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0024674: 89 28 mov DWORD PTR [eax],ebp

c0024676: 8b 4c 24 04 mov ecx,DWORD PTR [esp+0x4]

c002467a: 89 48 04 mov DWORD PTR [eax+0x4],ecx

c002467d: 83 ec 0c sub esp,0xc

c0024680: 55 push ebp

c0024681: e8 ef fb ff ff call c0024275 <block\_name>

c0024686: 83 c4 04 add esp,0x4

c0024689: ff 74 24 20 push DWORD PTR [esp+0x20]

c002468d: 50 push eax

c002468e: 68 a5 fe 02 c0 push 0xc002fea5

c0024693: 6a 10 push 0x10

c0024695: 8d 4c 24 3c lea ecx,[esp+0x3c]

c0024699: 51 push ecx

c002469a: e8 33 1d 00 00 call c00263d2 <snprintf>

c002469f: 89 f8 mov eax,edi

c00246a1: 0f b6 f8 movzx edi,al

c00246a4: 8b 04 bd 40 db 02 c0 mov eax,DWORD PTR [edi\*4-0x3ffd24c0]

c00246ab: 83 c4 14 add esp,0x14

c00246ae: 85 c0 test eax,eax

c00246b0: ba 83 fe 02 c0 mov edx,0xc002fe83

c00246b5: 0f 44 c2 cmove eax,edx

c00246b8: 57 push edi

c00246b9: 50 push eax

c00246ba: 68 aa fe 02 c0 push 0xc002feaa

c00246bf: 68 80 00 00 00 push 0x80

c00246c4: 8d 4c 24 4c lea ecx,[esp+0x4c]

c00246c8: 51 push ecx

c00246c9: e8 04 1d 00 00 call c00263d2 <snprintf>

c00246ce: 83 c4 18 add esp,0x18

c00246d1: ff 74 24 20 push DWORD PTR [esp+0x20]

c00246d5: 68 f8 9a 03 c0 push 0xc0039af8

c00246da: 53 push ebx

c00246db: 8d 44 24 44 lea eax,[esp+0x44]

c00246df: 50 push eax

c00246e0: ff 74 24 34 push DWORD PTR [esp+0x34]

c00246e4: 8d 44 24 3c lea eax,[esp+0x3c]

c00246e8: 50 push eax

c00246e9: e8 e1 fb ff ff call c00242cf <block\_register>

c00246ee: 83 c4 20 add esp,0x20

c00246f1: 83 c6 10 add esi,0x10

c00246f4: 3b 74 24 08 cmp esi,DWORD PTR [esp+0x8]

c00246f8: 0f 85 c6 fd ff ff jne c00244c4 <read\_partition\_table+0x

eb>

c00246fe: 8b 7c 24 0c mov edi,DWORD PTR [esp+0xc]

c0024702: 83 ec 0c sub esp,0xc

c0024705: 57 push edi

c0024706: e8 7a eb ff ff call c0023285 <free>

c002470b: 83 c4 10 add esp,0x10

c002470e: 81 c4 bc 00 00 00 add esp,0xbc

c0024714: 5b pop ebx

c0024715: 5e pop esi

c0024716: 5f pop edi

c0024717: 5d pop ebp

c0024718: c3 ret

c0024719 <partition\_write>:

c0024719: 83 ec 10 sub esp,0x10

c002471c: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0024720: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0024724: 8b 42 04 mov eax,DWORD PTR [edx+0x4]

c0024727: 03 44 24 1c add eax,DWORD PTR [esp+0x1c]

c002472b: 50 push eax

c002472c: ff 32 push DWORD PTR [edx]

c002472e: e8 de fa ff ff call c0024211 <block\_write>

c0024733: 83 c4 1c add esp,0x1c

c0024736: c3 ret

c0024737 <partition\_scan>:

c0024737: 53 push ebx

c0024738: 83 ec 24 sub esp,0x24

c002473b: 8b 5c 24 2c mov ebx,DWORD PTR [esp+0x2c]

c002473f: c7 44 24 18 00 00 00 mov DWORD PTR [esp+0x18],0x0

c0024746: 00

c0024747: 8d 44 24 18 lea eax,[esp+0x18]

c002474b: 50 push eax

c002474c: b9 00 00 00 00 mov ecx,0x0

c0024751: ba 00 00 00 00 mov edx,0x0

c0024756: 89 d8 mov eax,ebx

c0024758: e8 7c fc ff ff call c00243d9 <read\_partition\_table>

c002475d: 83 c4 10 add esp,0x10

c0024760: 83 7c 24 0c 00 cmp DWORD PTR [esp+0xc],0x0

c0024765: 75 1a jne c0024781 <partition\_scan+0x4a>

c0024767: 83 ec 0c sub esp,0xc

c002476a: 53 push ebx

c002476b: e8 05 fb ff ff call c0024275 <block\_name>

c0024770: 83 c4 08 add esp,0x8

c0024773: 50 push eax

c0024774: 68 a8 04 03 c0 push 0xc00304a8

c0024779: e8 47 15 00 00 call c0025cc5 <printf>

c002477e: 83 c4 10 add esp,0x10

c0024781: 83 c4 18 add esp,0x18

c0024784: 5b pop ebx

c0024785: c3 ret

c0024786 <descramble\_ata\_string>:

c0024786: 57 push edi

c0024787: 56 push esi

c0024788: 53 push ebx

c0024789: 89 d7 mov edi,edx

c002478b: 83 fa 01 cmp edx,0x1

c002478e: 7e 20 jle c00247b0 <descramble\_ata\_string+0

x2a>

c0024790: 8d 48 01 lea ecx,[eax+0x1]

c0024793: 8d 5a fe lea ebx,[edx-0x2]

c0024796: 83 e3 fe and ebx,0xfffffffe

c0024799: 8d 74 18 03 lea esi,[eax+ebx\*1+0x3]

c002479d: 0f b6 59 ff movzx ebx,BYTE PTR [ecx-0x1]

c00247a1: 0f b6 11 movzx edx,BYTE PTR [ecx]

c00247a4: 88 51 ff mov BYTE PTR [ecx-0x1],dl

c00247a7: 88 19 mov BYTE PTR [ecx],bl

c00247a9: 83 c1 02 add ecx,0x2

c00247ac: 39 f1 cmp ecx,esi

c00247ae: 75 ed jne c002479d <descramble\_ata\_string+0

x17>

c00247b0: 8d 57 ff lea edx,[edi-0x1]

c00247b3: 85 d2 test edx,edx

c00247b5: 7e 24 jle c00247db <descramble\_ata\_string+0

x55>

c00247b7: 0f b6 4c 10 ff movzx ecx,BYTE PTR [eax+edx\*1-0x1]

c00247bc: f6 c1 df test cl,0xdf

c00247bf: 74 15 je c00247d6 <descramble\_ata\_string+0

x50>

c00247c1: 8d 59 f4 lea ebx,[ecx-0xc]

c00247c4: 80 fb 01 cmp bl,0x1

c00247c7: 76 0d jbe c00247d6 <descramble\_ata\_string+0

x50>

c00247c9: 80 f9 0a cmp cl,0xa

c00247cc: 74 08 je c00247d6 <descramble\_ata\_string+0

x50>

c00247ce: 83 e1 fd and ecx,0xfffffffd

c00247d1: 80 f9 09 cmp cl,0x9

c00247d4: 75 05 jne c00247db <descramble\_ata\_string+0

x55>

c00247d6: 83 ea 01 sub edx,0x1

c00247d9: 75 dc jne c00247b7 <descramble\_ata\_string+0

x31>

c00247db: c6 04 10 00 mov BYTE PTR [eax+edx\*1],0x0

c00247df: 5b pop ebx

c00247e0: 5e pop esi

c00247e1: 5f pop edi

c00247e2: c3 ret

c00247e3 <interrupt\_handler>:

c00247e3: 83 ec 0c sub esp,0xc

c00247e6: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00247ea: 8b 40 30 mov eax,DWORD PTR [eax+0x30]

c00247ed: 0f b6 15 aa b4 03 c0 movzx edx,BYTE PTR ds:0xc003b4aa

c00247f4: b9 a0 b4 03 c0 mov ecx,0xc003b4a0

c00247f9: 39 d0 cmp eax,edx

c00247fb: 74 07 je c0024804 <interrupt\_handler+0x21>

c00247fd: eb 37 jmp c0024836 <interrupt\_handler+0x53>

c00247ff: b9 0c b5 03 c0 mov ecx,0xc003b50c

c0024804: 80 79 2c 00 cmp BYTE PTR [ecx+0x2c],0x0

c0024808: 74 19 je c0024823 <interrupt\_handler+0x40>

c002480a: 0f b7 41 08 movzx eax,WORD PTR [ecx+0x8]

c002480e: 8d 50 07 lea edx,[eax+0x7]

c0024811: ec in al,dx

c0024812: 83 ec 0c sub esp,0xc

c0024815: 83 c1 30 add ecx,0x30

c0024818: 51 push ecx

c0024819: e8 cd dd ff ff call c00225eb <sema\_up>

c002481e: 83 c4 10 add esp,0x10

c0024821: eb 37 jmp c002485a <interrupt\_handler+0x77>

c0024823: 83 ec 08 sub esp,0x8

c0024826: 51 push ecx

c0024827: 68 cb 04 03 c0 push 0xc00304cb

c002482c: e8 94 14 00 00 call c0025cc5 <printf>

c0024831: 83 c4 10 add esp,0x10

c0024834: eb 24 jmp c002485a <interrupt\_handler+0x77>

c0024836: 0f b6 15 16 b5 03 c0 movzx edx,BYTE PTR ds:0xc003b516

c002483d: 39 d0 cmp eax,edx

c002483f: 74 be je c00247ff <interrupt\_handler+0x1c>

c0024841: 68 64 f5 02 c0 push 0xc002f564

c0024846: 68 b8 df 02 c0 push 0xc002dfb8

c002484b: 68 14 02 00 00 push 0x214

c0024850: 68 e5 04 03 c0 push 0xc00304e5

c0024855: e8 e3 30 00 00 call c002793d <debug\_panic>

c002485a: 83 c4 0c add esp,0xc

c002485d: c3 ret

c002485e <wait\_until\_idle>:

c002485e: 56 push esi

c002485f: 53 push ebx

c0024860: 83 ec 04 sub esp,0x4

c0024863: 89 c6 mov esi,eax

c0024865: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c0024868: 0f b7 40 08 movzx eax,WORD PTR [eax+0x8]

c002486c: 8d 50 07 lea edx,[eax+0x7]

c002486f: ec in al,dx

c0024870: a8 88 test al,0x88

c0024872: 75 38 jne c00248ac <wait\_until\_idle+0x4e>

c0024874: eb 4c jmp c00248c2 <wait\_until\_idle+0x64>

c0024876: 8b 46 08 mov eax,DWORD PTR [esi+0x8]

c0024879: 0f b7 40 08 movzx eax,WORD PTR [eax+0x8]

c002487d: 8d 50 07 lea edx,[eax+0x7]

c0024880: ec in al,dx

c0024881: a8 88 test al,0x88

c0024883: 74 3d je c00248c2 <wait\_until\_idle+0x64>

c0024885: 83 ec 08 sub esp,0x8

c0024888: 6a 00 push 0x0

c002488a: 6a 0a push 0xa

c002488c: e8 89 ef ff ff call c002381a <timer\_usleep>

c0024891: 83 c4 10 add esp,0x10

c0024894: 83 eb 01 sub ebx,0x1

c0024897: 75 dd jne c0024876 <wait\_until\_idle+0x18>

c0024899: 83 ec 08 sub esp,0x8

c002489c: 56 push esi

c002489d: 68 f9 04 03 c0 push 0xc00304f9

c00248a2: e8 1e 14 00 00 call c0025cc5 <printf>

c00248a7: 83 c4 10 add esp,0x10

c00248aa: eb 16 jmp c00248c2 <wait\_until\_idle+0x64>

c00248ac: 83 ec 08 sub esp,0x8

c00248af: 6a 00 push 0x0

c00248b1: 6a 0a push 0xa

c00248b3: e8 62 ef ff ff call c002381a <timer\_usleep>

c00248b8: 83 c4 10 add esp,0x10

c00248bb: bb e7 03 00 00 mov ebx,0x3e7

c00248c0: eb b4 jmp c0024876 <wait\_until\_idle+0x18>

c00248c2: 83 c4 04 add esp,0x4

c00248c5: 5b pop ebx

c00248c6: 5e pop esi

c00248c7: c3 ret

c00248c8 <select\_device>:

c00248c8: 83 ec 14 sub esp,0x14

c00248cb: 8b 50 08 mov edx,DWORD PTR [eax+0x8]

c00248ce: 83 78 0c 01 cmp DWORD PTR [eax+0xc],0x1

c00248d2: b9 b0 ff ff ff mov ecx,0xffffffb0

c00248d7: b8 a0 ff ff ff mov eax,0xffffffa0

c00248dc: 0f 44 c1 cmove eax,ecx

c00248df: 0f b7 4a 08 movzx ecx,WORD PTR [edx+0x8]

c00248e3: 8d 51 06 lea edx,[ecx+0x6]

c00248e6: ee out dx,al

c00248e7: 8d 91 06 02 00 00 lea edx,[ecx+0x206]

c00248ed: ec in al,dx

c00248ee: 6a 00 push 0x0

c00248f0: 68 90 01 00 00 push 0x190

c00248f5: e8 39 ef ff ff call c0023833 <timer\_nsleep>

c00248fa: 83 c4 1c add esp,0x1c

c00248fd: c3 ret

c00248fe <check\_device\_type>:

c00248fe: 55 push ebp

c00248ff: 57 push edi

c0024900: 56 push esi

c0024901: 53 push ebx

c0024902: 83 ec 0c sub esp,0xc

c0024905: 89 c6 mov esi,eax

c0024907: 8b 58 08 mov ebx,DWORD PTR [eax+0x8]

c002490a: e8 b9 ff ff ff call c00248c8 <select\_device>

c002490f: 0f b7 4b 08 movzx ecx,WORD PTR [ebx+0x8]

c0024913: 8d 51 01 lea edx,[ecx+0x1]

c0024916: ec in al,dx

c0024917: 89 c3 mov ebx,eax

c0024919: 8d 51 04 lea edx,[ecx+0x4]

c002491c: ec in al,dx

c002491d: 89 c5 mov ebp,eax

c002491f: 8d 51 05 lea edx,[ecx+0x5]

c0024922: ec in al,dx

c0024923: 89 c7 mov edi,eax

c0024925: 8d 51 07 lea edx,[ecx+0x7]

c0024928: ec in al,dx

c0024929: 80 fb 01 cmp bl,0x1

c002492c: 74 0b je c0024939 <check\_device\_type+0x3b>

c002492e: 80 fb 81 cmp bl,0x81

c0024931: 75 0e jne c0024941 <check\_device\_type+0x43>

c0024933: 83 7e 0c 01 cmp DWORD PTR [esi+0xc],0x1

c0024937: 74 08 je c0024941 <check\_device\_type+0x43>

c0024939: a8 40 test al,0x40

c002493b: 74 04 je c0024941 <check\_device\_type+0x43>

c002493d: 84 c0 test al,al

c002493f: 79 0c jns c002494d <check\_device\_type+0x4f>

c0024941: c6 46 10 00 mov BYTE PTR [esi+0x10],0x0

c0024945: 80 fb 81 cmp bl,0x81

c0024948: 0f 95 c0 setne al

c002494b: eb 2c jmp c0024979 <check\_device\_type+0x7b>

c002494d: b8 01 00 00 00 mov eax,0x1

c0024952: 89 f9 mov ecx,edi

c0024954: 89 eb mov ebx,ebp

c0024956: 08 d9 or cl,bl

c0024958: 74 13 je c002496d <check\_device\_type+0x6f>

c002495a: 80 fb 3c cmp bl,0x3c

c002495d: 0f 94 c0 sete al

c0024960: 89 f9 mov ecx,edi

c0024962: 80 f9 c3 cmp cl,0xc3

c0024965: 0f 94 c2 sete dl

c0024968: 0f b6 d2 movzx edx,dl

c002496b: 21 d0 and eax,edx

c002496d: 88 46 10 mov BYTE PTR [esi+0x10],al

c0024970: 80 66 10 01 and BYTE PTR [esi+0x10],0x1

c0024974: b8 01 00 00 00 mov eax,0x1

c0024979: 83 c4 0c add esp,0xc

c002497c: 5b pop ebx

c002497d: 5e pop esi

c002497e: 5f pop edi

c002497f: 5d pop ebp

c0024980: c3 ret

c0024981 <select\_sector>:

c0024981: 57 push edi

c0024982: 56 push esi

c0024983: 53 push ebx

c0024984: 8b 78 08 mov edi,DWORD PTR [eax+0x8]

c0024987: 81 fa ff ff ff 0f cmp edx,0xfffffff

c002498d: 76 21 jbe c00249b0 <select\_sector+0x2f>

c002498f: 83 ec 0c sub esp,0xc

c0024992: 68 0b 05 03 c0 push 0xc003050b

c0024997: 68 83 ed 02 c0 push 0xc002ed83

c002499c: 68 88 df 02 c0 push 0xc002df88

c00249a1: 68 91 01 00 00 push 0x191

c00249a6: 68 e5 04 03 c0 push 0xc00304e5

c00249ab: e8 8d 2f 00 00 call c002793d <debug\_panic>

c00249b0: 89 c6 mov esi,eax

c00249b2: 89 d3 mov ebx,edx

c00249b4: e8 a5 fe ff ff call c002485e <wait\_until\_idle>

c00249b9: 89 f0 mov eax,esi

c00249bb: e8 08 ff ff ff call c00248c8 <select\_device>

c00249c0: 89 f0 mov eax,esi

c00249c2: e8 97 fe ff ff call c002485e <wait\_until\_idle>

c00249c7: 0f b7 4f 08 movzx ecx,WORD PTR [edi+0x8]

c00249cb: 8d 51 02 lea edx,[ecx+0x2]

c00249ce: b8 01 00 00 00 mov eax,0x1

c00249d3: ee out dx,al

c00249d4: 8d 51 03 lea edx,[ecx+0x3]

c00249d7: 89 d8 mov eax,ebx

c00249d9: ee out dx,al

c00249da: 89 d8 mov eax,ebx

c00249dc: c1 e8 08 shr eax,0x8

c00249df: 8d 51 04 lea edx,[ecx+0x4]

c00249e2: ee out dx,al

c00249e3: 89 d8 mov eax,ebx

c00249e5: c1 e8 10 shr eax,0x10

c00249e8: 8d 51 05 lea edx,[ecx+0x5]

c00249eb: ee out dx,al

c00249ec: 83 7e 0c 01 cmp DWORD PTR [esi+0xc],0x1

c00249f0: ba e0 ff ff ff mov edx,0xffffffe0

c00249f5: b8 f0 ff ff ff mov eax,0xfffffff0

c00249fa: 0f 45 c2 cmovne eax,edx

c00249fd: c1 eb 18 shr ebx,0x18

c0024a00: 09 d8 or eax,ebx

c0024a02: 8d 51 06 lea edx,[ecx+0x6]

c0024a05: ee out dx,al

c0024a06: 5b pop ebx

c0024a07: 5e pop esi

c0024a08: 5f pop edi

c0024a09: c3 ret

c0024a0a <wait\_while\_busy>:

c0024a0a: 57 push edi

c0024a0b: 56 push esi

c0024a0c: 53 push ebx

c0024a0d: 89 c7 mov edi,eax

c0024a0f: 8b 70 08 mov esi,DWORD PTR [eax+0x8]

c0024a12: bb 00 00 00 00 mov ebx,0x0

c0024a17: eb 19 jmp c0024a32 <wait\_while\_busy+0x28>

c0024a19: 81 fb bc 02 00 00 cmp ebx,0x2bc

c0024a1f: 75 11 jne c0024a32 <wait\_while\_busy+0x28>

c0024a21: 83 ec 08 sub esp,0x8

c0024a24: 57 push edi

c0024a25: 68 20 05 03 c0 push 0xc0030520

c0024a2a: e8 96 12 00 00 call c0025cc5 <printf>

c0024a2f: 83 c4 10 add esp,0x10

c0024a32: 0f b7 46 08 movzx eax,WORD PTR [esi+0x8]

c0024a36: 8d 90 06 02 00 00 lea edx,[eax+0x206]

c0024a3c: ec in al,dx

c0024a3d: 84 c0 test al,al

c0024a3f: 78 2b js c0024a6c <wait\_while\_busy+0x62>

c0024a41: 81 fb bb 02 00 00 cmp ebx,0x2bb

c0024a47: 7e 10 jle c0024a59 <wait\_while\_busy+0x4f>

c0024a49: 83 ec 0c sub esp,0xc

c0024a4c: 68 35 05 03 c0 push 0xc0030535

c0024a51: e8 fa 49 00 00 call c0029450 <puts>

c0024a56: 83 c4 10 add esp,0x10

c0024a59: 0f b7 46 08 movzx eax,WORD PTR [esi+0x8]

c0024a5d: 8d 90 06 02 00 00 lea edx,[eax+0x206]

c0024a63: ec in al,dx

c0024a64: c0 e8 03 shr al,0x3

c0024a67: 83 e0 01 and eax,0x1

c0024a6a: eb 2f jmp c0024a9b <wait\_while\_busy+0x91>

c0024a6c: 83 ec 08 sub esp,0x8

c0024a6f: 6a 00 push 0x0

c0024a71: 6a 0a push 0xa

c0024a73: e8 89 ed ff ff call c0023801 <timer\_msleep>

c0024a78: 83 c3 01 add ebx,0x1

c0024a7b: 83 c4 10 add esp,0x10

c0024a7e: 81 fb b8 0b 00 00 cmp ebx,0xbb8

c0024a84: 75 93 jne c0024a19 <wait\_while\_busy+0xf>

c0024a86: 83 ec 0c sub esp,0xc

c0024a89: 68 b0 14 03 c0 push 0xc00314b0

c0024a8e: e8 bd 49 00 00 call c0029450 <puts>

c0024a93: 83 c4 10 add esp,0x10

c0024a96: b8 00 00 00 00 mov eax,0x0

c0024a9b: 5b pop ebx

c0024a9c: 5e pop esi

c0024a9d: 5f pop edi

c0024a9e: c3 ret

c0024a9f <issue\_pio\_command>:

c0024a9f: 56 push esi

c0024aa0: 53 push ebx

c0024aa1: 83 ec 04 sub esp,0x4

c0024aa4: 89 c3 mov ebx,eax

c0024aa6: 89 d6 mov esi,edx

c0024aa8: e8 98 c9 ff ff call c0021445 <intr\_get\_level>

c0024aad: 83 f8 01 cmp eax,0x1

c0024ab0: 74 21 je c0024ad3 <issue\_pio\_command+0x34>

c0024ab2: 83 ec 0c sub esp,0xc

c0024ab5: 68 4e fc 02 c0 push 0xc002fc4e

c0024aba: 68 83 ed 02 c0 push 0xc002ed83

c0024abf: 68 68 df 02 c0 push 0xc002df68

c0024ac4: 68 a3 01 00 00 push 0x1a3

c0024ac9: 68 e5 04 03 c0 push 0xc00304e5

c0024ace: e8 6a 2e 00 00 call c002793d <debug\_panic>

c0024ad3: c6 43 2c 01 mov BYTE PTR [ebx+0x2c],0x1

c0024ad7: 0f b7 53 08 movzx edx,WORD PTR [ebx+0x8]

c0024adb: 83 c2 07 add edx,0x7

c0024ade: 89 f0 mov eax,esi

c0024ae0: ee out dx,al

c0024ae1: 83 c4 04 add esp,0x4

c0024ae4: 5b pop ebx

c0024ae5: 5e pop esi

c0024ae6: c3 ret

c0024ae7 <ide\_write>:

c0024ae7: 57 push edi

c0024ae8: 56 push esi

c0024ae9: 53 push ebx

c0024aea: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0024aee: 8b 5e 08 mov ebx,DWORD PTR [esi+0x8]

c0024af1: 8d 7b 0c lea edi,[ebx+0xc]

c0024af4: 83 ec 0c sub esp,0xc

c0024af7: 57 push edi

c0024af8: e8 86 dc ff ff call c0022783 <lock\_acquire>

c0024afd: 8b 54 24 24 mov edx,DWORD PTR [esp+0x24]

c0024b01: 89 f0 mov eax,esi

c0024b03: e8 79 fe ff ff call c0024981 <select\_sector>

c0024b08: ba 30 00 00 00 mov edx,0x30

c0024b0d: 89 d8 mov eax,ebx

c0024b0f: e8 8b ff ff ff call c0024a9f <issue\_pio\_command>

c0024b14: 89 f0 mov eax,esi

c0024b16: e8 ef fe ff ff call c0024a0a <wait\_while\_busy>

c0024b1b: 83 c4 10 add esp,0x10

c0024b1e: 84 c0 test al,al

c0024b20: 75 21 jne c0024b43 <ide\_write+0x5c>

c0024b22: 83 ec 08 sub esp,0x8

c0024b25: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0024b29: 56 push esi

c0024b2a: 68 84 05 03 c0 push 0xc0030584

c0024b2f: 68 98 df 02 c0 push 0xc002df98

c0024b34: 68 7d 01 00 00 push 0x17d

c0024b39: 68 e5 04 03 c0 push 0xc00304e5

c0024b3e: e8 fa 2d 00 00 call c002793d <debug\_panic>

c0024b43: 0f b7 53 08 movzx edx,WORD PTR [ebx+0x8]

c0024b47: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c0024b4b: b9 00 01 00 00 mov ecx,0x100

c0024b50: 66 f3 6f rep outs dx,WORD PTR ds:[esi]

c0024b53: 83 ec 0c sub esp,0xc

c0024b56: 83 c3 30 add ebx,0x30

c0024b59: 53 push ebx

c0024b5a: e8 a1 d9 ff ff call c0022500 <sema\_down>

c0024b5f: 89 3c 24 mov DWORD PTR [esp],edi

c0024b62: e8 6c dd ff ff call c00228d3 <lock\_release>

c0024b67: 83 c4 10 add esp,0x10

c0024b6a: 5b pop ebx

c0024b6b: 5e pop esi

c0024b6c: 5f pop edi

c0024b6d: c3 ret

c0024b6e <identify\_ata\_device>:

c0024b6e: 57 push edi

c0024b6f: 56 push esi

c0024b70: 53 push ebx

c0024b71: 81 ec 80 02 00 00 sub esp,0x280

c0024b77: 8b 70 08 mov esi,DWORD PTR [eax+0x8]

c0024b7a: 80 78 10 00 cmp BYTE PTR [eax+0x10],0x0

c0024b7e: 75 21 jne c0024ba1 <identify\_ata\_device+0x3

3>

c0024b80: 83 ec 0c sub esp,0xc

c0024b83: 68 38 05 03 c0 push 0xc0030538

c0024b88: 68 83 ed 02 c0 push 0xc002ed83

c0024b8d: 68 a4 df 02 c0 push 0xc002dfa4

c0024b92: 68 12 01 00 00 push 0x112

c0024b97: 68 e5 04 03 c0 push 0xc00304e5

c0024b9c: e8 9c 2d 00 00 call c002793d <debug\_panic>

c0024ba1: 89 c3 mov ebx,eax

c0024ba3: e8 b6 fc ff ff call c002485e <wait\_until\_idle>

c0024ba8: 89 d8 mov eax,ebx

c0024baa: e8 19 fd ff ff call c00248c8 <select\_device>

c0024baf: 89 d8 mov eax,ebx

c0024bb1: e8 a8 fc ff ff call c002485e <wait\_until\_idle>

c0024bb6: ba ec 00 00 00 mov edx,0xec

c0024bbb: 89 f0 mov eax,esi

c0024bbd: e8 dd fe ff ff call c0024a9f <issue\_pio\_command>

c0024bc2: 83 ec 0c sub esp,0xc

c0024bc5: 8d 46 30 lea eax,[esi+0x30]

c0024bc8: 50 push eax

c0024bc9: e8 32 d9 ff ff call c0022500 <sema\_down>

c0024bce: 89 d8 mov eax,ebx

c0024bd0: e8 35 fe ff ff call c0024a0a <wait\_while\_busy>

c0024bd5: 83 c4 10 add esp,0x10

c0024bd8: 84 c0 test al,al

c0024bda: 75 09 jne c0024be5 <identify\_ata\_device+0x7

7>

c0024bdc: c6 43 10 00 mov BYTE PTR [ebx+0x10],0x0

c0024be0: e9 bc 00 00 00 jmp c0024ca1 <identify\_ata\_device+0x1

33>

c0024be5: 0f b7 56 08 movzx edx,WORD PTR [esi+0x8]

c0024be9: 8d bc 24 80 00 00 00 lea edi,[esp+0x80]

c0024bf0: b9 00 01 00 00 mov ecx,0x100

c0024bf5: 66 f3 6d rep ins WORD PTR es:[edi],dx

c0024bf8: 8b b4 24 f8 00 00 00 mov esi,DWORD PTR [esp+0xf8]

c0024bff: ba 14 00 00 00 mov edx,0x14

c0024c04: 8d 84 24 94 00 00 00 lea eax,[esp+0x94]

c0024c0b: e8 76 fb ff ff call c0024786 <descramble\_ata\_string>

c0024c10: 89 c7 mov edi,eax

c0024c12: ba 28 00 00 00 mov edx,0x28

c0024c17: 8d 84 24 b6 00 00 00 lea eax,[esp+0xb6]

c0024c1e: e8 63 fb ff ff call c0024786 <descramble\_ata\_string>

c0024c23: 83 ec 0c sub esp,0xc

c0024c26: 50 push eax

c0024c27: 57 push edi

c0024c28: 68 42 05 03 c0 push 0xc0030542

c0024c2d: 68 80 00 00 00 push 0x80

c0024c32: 8d 44 24 1c lea eax,[esp+0x1c]

c0024c36: 50 push eax

c0024c37: e8 96 17 00 00 call c00263d2 <snprintf>

c0024c3c: 83 c4 20 add esp,0x20

c0024c3f: 81 fe ff ff 1f 00 cmp esi,0x1fffff

c0024c45: 76 37 jbe c0024c7e <identify\_ata\_device+0x1

10>

c0024c47: 83 ec 08 sub esp,0x8

c0024c4a: 53 push ebx

c0024c4b: 68 5a 05 03 c0 push 0xc003055a

c0024c50: e8 70 10 00 00 call c0025cc5 <printf>

c0024c55: 83 c4 08 add esp,0x8

c0024c58: 89 f0 mov eax,esi

c0024c5a: c1 e0 09 shl eax,0x9

c0024c5d: ba 00 00 00 00 mov edx,0x0

c0024c62: 52 push edx

c0024c63: 50 push eax

c0024c64: e8 74 19 00 00 call c00265dd <print\_human\_readable\_si

ze>

c0024c69: c7 04 24 68 05 03 c0 mov DWORD PTR [esp],0xc0030568

c0024c70: e8 db 47 00 00 call c0029450 <puts>

c0024c75: c6 43 10 00 mov BYTE PTR [ebx+0x10],0x0

c0024c79: 83 c4 10 add esp,0x10

c0024c7c: eb 23 jmp c0024ca1 <identify\_ata\_device+0x1

33>

c0024c7e: 83 ec 08 sub esp,0x8

c0024c81: 53 push ebx

c0024c82: 68 00 9b 03 c0 push 0xc0039b00

c0024c87: 56 push esi

c0024c88: 8d 44 24 14 lea eax,[esp+0x14]

c0024c8c: 50 push eax

c0024c8d: 6a 04 push 0x4

c0024c8f: 53 push ebx

c0024c90: e8 3a f6 ff ff call c00242cf <block\_register>

c0024c95: 83 c4 14 add esp,0x14

c0024c98: 50 push eax

c0024c99: e8 99 fa ff ff call c0024737 <partition\_scan>

c0024c9e: 83 c4 10 add esp,0x10

c0024ca1: 81 c4 80 02 00 00 add esp,0x280

c0024ca7: 5b pop ebx

c0024ca8: 5e pop esi

c0024ca9: 5f pop edi

c0024caa: c3 ret

c0024cab <ide\_read>:

c0024cab: 55 push ebp

c0024cac: 57 push edi

c0024cad: 56 push esi

c0024cae: 53 push ebx

c0024caf: 83 ec 18 sub esp,0x18

c0024cb2: 8b 74 24 2c mov esi,DWORD PTR [esp+0x2c]

c0024cb6: 8b 5e 08 mov ebx,DWORD PTR [esi+0x8]

c0024cb9: 8d 6b 0c lea ebp,[ebx+0xc]

c0024cbc: 55 push ebp

c0024cbd: e8 c1 da ff ff call c0022783 <lock\_acquire>

c0024cc2: 8b 54 24 34 mov edx,DWORD PTR [esp+0x34]

c0024cc6: 89 f0 mov eax,esi

c0024cc8: e8 b4 fc ff ff call c0024981 <select\_sector>

c0024ccd: ba 20 00 00 00 mov edx,0x20

c0024cd2: 89 d8 mov eax,ebx

c0024cd4: e8 c6 fd ff ff call c0024a9f <issue\_pio\_command>

c0024cd9: 8d 43 30 lea eax,[ebx+0x30]

c0024cdc: 89 04 24 mov DWORD PTR [esp],eax

c0024cdf: e8 1c d8 ff ff call c0022500 <sema\_down>

c0024ce4: 89 f0 mov eax,esi

c0024ce6: e8 1f fd ff ff call c0024a0a <wait\_while\_busy>

c0024ceb: 83 c4 10 add esp,0x10

c0024cee: 84 c0 test al,al

c0024cf0: 75 21 jne c0024d13 <ide\_read+0x68>

c0024cf2: 83 ec 08 sub esp,0x8

c0024cf5: ff 74 24 2c push DWORD PTR [esp+0x2c]

c0024cf9: 56 push esi

c0024cfa: 68 a8 05 03 c0 push 0xc00305a8

c0024cff: 68 7c df 02 c0 push 0xc002df7c

c0024d04: 68 68 01 00 00 push 0x168

c0024d09: 68 e5 04 03 c0 push 0xc00304e5

c0024d0e: e8 2a 2c 00 00 call c002793d <debug\_panic>

c0024d13: 0f b7 53 08 movzx edx,WORD PTR [ebx+0x8]

c0024d17: 8b 7c 24 28 mov edi,DWORD PTR [esp+0x28]

c0024d1b: b9 00 01 00 00 mov ecx,0x100

c0024d20: 66 f3 6d rep ins WORD PTR es:[edi],dx

c0024d23: 83 ec 0c sub esp,0xc

c0024d26: 55 push ebp

c0024d27: e8 a7 db ff ff call c00228d3 <lock\_release>

c0024d2c: 83 c4 1c add esp,0x1c

c0024d2f: 5b pop ebx

c0024d30: 5e pop esi

c0024d31: 5f pop edi

c0024d32: 5d pop ebp

c0024d33: c3 ret

c0024d34 <ide\_init>:

c0024d34: 55 push ebp

c0024d35: 57 push edi

c0024d36: 56 push esi

c0024d37: 53 push ebx

c0024d38: 83 ec 3c sub esp,0x3c

c0024d3b: c7 44 24 14 f8 b4 03 mov DWORD PTR [esp+0x14],0xc003b4f8

c0024d42: c0

c0024d43: bf e4 b4 03 c0 mov edi,0xc003b4e4

c0024d48: c7 44 24 10 61 00 00 mov DWORD PTR [esp+0x10],0x61

c0024d4f: 00

c0024d50: c7 44 24 08 00 00 00 mov DWORD PTR [esp+0x8],0x0

c0024d57: 00

c0024d58: 8d 77 bc lea esi,[edi-0x44]

c0024d5b: 8b 5c 24 08 mov ebx,DWORD PTR [esp+0x8]

c0024d5f: 53 push ebx

c0024d60: 68 78 05 03 c0 push 0xc0030578

c0024d65: 6a 08 push 0x8

c0024d67: 56 push esi

c0024d68: e8 65 16 00 00 call c00263d2 <snprintf>

c0024d6d: 83 c4 10 add esp,0x10

c0024d70: 85 db test ebx,ebx

c0024d72: 74 07 je c0024d7b <ide\_init+0x47>

c0024d74: 83 fb 01 cmp ebx,0x1

c0024d77: 74 14 je c0024d8d <ide\_init+0x59>

c0024d79: eb 24 jmp c0024d9f <ide\_init+0x6b>

c0024d7b: 66 c7 05 a8 b4 03 c0 mov WORD PTR ds:0xc003b4a8,0x1f0

c0024d82: f0 01

c0024d84: c6 05 aa b4 03 c0 2e mov BYTE PTR ds:0xc003b4aa,0x2e

c0024d8b: eb 28 jmp c0024db5 <ide\_init+0x81>

c0024d8d: 66 c7 05 14 b5 03 c0 mov WORD PTR ds:0xc003b514,0x170

c0024d94: 70 01

c0024d96: c6 05 16 b5 03 c0 2f mov BYTE PTR ds:0xc003b516,0x2f

c0024d9d: eb 16 jmp c0024db5 <ide\_init+0x81>

c0024d9f: 68 64 f5 02 c0 push 0xc002f564

c0024da4: 68 cc df 02 c0 push 0xc002dfcc

c0024da9: 6a 7c push 0x7c

c0024dab: 68 e5 04 03 c0 push 0xc00304e5

c0024db0: e8 88 2b 00 00 call c002793d <debug\_panic>

c0024db5: 83 ec 0c sub esp,0xc

c0024db8: 8d 47 c8 lea eax,[edi-0x38]

c0024dbb: 50 push eax

c0024dbc: e8 40 d9 ff ff call c0022701 <lock\_init>

c0024dc1: 89 fb mov ebx,edi

c0024dc3: c6 47 e8 00 mov BYTE PTR [edi-0x18],0x0

c0024dc7: 83 c4 08 add esp,0x8

c0024dca: 6a 00 push 0x0

c0024dcc: 8d 47 ec lea eax,[edi-0x14]

c0024dcf: 50 push eax

c0024dd0: e8 ec d6 ff ff call c00224c1 <sema\_init>

c0024dd5: 8b 6c 24 20 mov ebp,DWORD PTR [esp+0x20]

c0024dd9: 55 push ebp

c0024dda: 68 7f 05 03 c0 push 0xc003057f

c0024ddf: 6a 08 push 0x8

c0024de1: 57 push edi

c0024de2: e8 eb 15 00 00 call c00263d2 <snprintf>

c0024de7: 89 77 08 mov DWORD PTR [edi+0x8],esi

c0024dea: c7 47 0c 00 00 00 00 mov DWORD PTR [edi+0xc],0x0

c0024df1: c6 47 10 00 mov BYTE PTR [edi+0x10],0x0

c0024df5: 8b 4c 24 34 mov ecx,DWORD PTR [esp+0x34]

c0024df9: 89 4c 24 38 mov DWORD PTR [esp+0x38],ecx

c0024dfd: 83 c4 20 add esp,0x20

c0024e00: 89 e8 mov eax,ebp

c0024e02: 83 c0 01 add eax,0x1

c0024e05: 50 push eax

c0024e06: 68 7f 05 03 c0 push 0xc003057f

c0024e0b: 6a 08 push 0x8

c0024e0d: 51 push ecx

c0024e0e: e8 bf 15 00 00 call c00263d2 <snprintf>

c0024e13: 89 77 1c mov DWORD PTR [edi+0x1c],esi

c0024e16: c7 47 20 01 00 00 00 mov DWORD PTR [edi+0x20],0x1

c0024e1d: c6 47 24 00 mov BYTE PTR [edi+0x24],0x0

c0024e21: 83 c4 0c add esp,0xc

c0024e24: 56 push esi

c0024e25: 68 e3 47 02 c0 push 0xc00247e3

c0024e2a: 0f b6 47 c6 movzx eax,BYTE PTR [edi-0x3a]

c0024e2e: 50 push eax

c0024e2f: e8 ed c7 ff ff call c0021621 <intr\_register\_ext>

c0024e34: 8d 74 24 3e lea esi,[esp+0x3e]

c0024e38: 83 c4 10 add esp,0x10

c0024e3b: 89 7c 24 0c mov DWORD PTR [esp+0xc],edi

c0024e3f: 89 7c 24 1c mov DWORD PTR [esp+0x1c],edi

c0024e43: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c0024e47: e8 7c fa ff ff call c00248c8 <select\_device>

c0024e4c: 0f b7 6b c4 movzx ebp,WORD PTR [ebx-0x3c]

c0024e50: 8d 4d 02 lea ecx,[ebp+0x2]

c0024e53: b8 55 00 00 00 mov eax,0x55

c0024e58: 89 ca mov edx,ecx

c0024e5a: ee out dx,al

c0024e5b: 8d 7d 03 lea edi,[ebp+0x3]

c0024e5e: b8 aa ff ff ff mov eax,0xffffffaa

c0024e63: 89 fa mov edx,edi

c0024e65: ee out dx,al

c0024e66: 89 ca mov edx,ecx

c0024e68: ee out dx,al

c0024e69: b8 55 00 00 00 mov eax,0x55

c0024e6e: 89 fa mov edx,edi

c0024e70: ee out dx,al

c0024e71: 89 ca mov edx,ecx

c0024e73: ee out dx,al

c0024e74: b8 aa ff ff ff mov eax,0xffffffaa

c0024e79: 89 fa mov edx,edi

c0024e7b: ee out dx,al

c0024e7c: 89 ca mov edx,ecx

c0024e7e: ec in al,dx

c0024e7f: ba 00 00 00 00 mov edx,0x0

c0024e84: 3c 55 cmp al,0x55

c0024e86: 75 0b jne c0024e93 <ide\_init+0x15f>

c0024e88: 89 fa mov edx,edi

c0024e8a: ec in al,dx

c0024e8b: 3c aa cmp al,0xaa

c0024e8d: 0f 94 c2 sete dl

c0024e90: 0f b6 d2 movzx edx,dl

c0024e93: 88 16 mov BYTE PTR [esi],dl

c0024e95: 80 26 01 and BYTE PTR [esi],0x1

c0024e98: 83 44 24 0c 14 add DWORD PTR [esp+0xc],0x14

c0024e9d: 83 c6 01 add esi,0x1

c0024ea0: 8d 44 24 30 lea eax,[esp+0x30]

c0024ea4: 39 c6 cmp esi,eax

c0024ea6: 75 9b jne c0024e43 <ide\_init+0x10f>

c0024ea8: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

c0024eac: 8d 95 06 02 00 00 lea edx,[ebp+0x206]

c0024eb2: b8 00 00 00 00 mov eax,0x0

c0024eb7: ee out dx,al

c0024eb8: 83 ec 08 sub esp,0x8

c0024ebb: 6a 00 push 0x0

c0024ebd: 6a 0a push 0xa

c0024ebf: e8 56 e9 ff ff call c002381a <timer\_usleep>

c0024ec4: 0f b7 43 c4 movzx eax,WORD PTR [ebx-0x3c]

c0024ec8: 8d 90 06 02 00 00 lea edx,[eax+0x206]

c0024ece: b8 04 00 00 00 mov eax,0x4

c0024ed3: ee out dx,al

c0024ed4: 83 c4 08 add esp,0x8

c0024ed7: 6a 00 push 0x0

c0024ed9: 6a 0a push 0xa

c0024edb: e8 3a e9 ff ff call c002381a <timer\_usleep>

c0024ee0: 0f b7 43 c4 movzx eax,WORD PTR [ebx-0x3c]

c0024ee4: 8d 90 06 02 00 00 lea edx,[eax+0x206]

c0024eea: b8 00 00 00 00 mov eax,0x0

c0024eef: ee out dx,al

c0024ef0: 83 c4 08 add esp,0x8

c0024ef3: 6a 00 push 0x0

c0024ef5: 68 96 00 00 00 push 0x96

c0024efa: e8 02 e9 ff ff call c0023801 <timer\_msleep>

c0024eff: 83 c4 10 add esp,0x10

c0024f02: 80 7c 24 2e 00 cmp BYTE PTR [esp+0x2e],0x0

c0024f07: 74 0e je c0024f17 <ide\_init+0x1e3>

c0024f09: 89 d8 mov eax,ebx

c0024f0b: e8 b8 f9 ff ff call c00248c8 <select\_device>

c0024f10: 89 d8 mov eax,ebx

c0024f12: e8 f3 fa ff ff call c0024a0a <wait\_while\_busy>

c0024f17: 80 7c 24 2f 00 cmp BYTE PTR [esp+0x2f],0x0

c0024f1c: 74 3f je c0024f5d <ide\_init+0x229>

c0024f1e: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0024f22: e8 a1 f9 ff ff call c00248c8 <select\_device>

c0024f27: be b8 0b 00 00 mov esi,0xbb8

c0024f2c: 0f b7 4b c4 movzx ecx,WORD PTR [ebx-0x3c]

c0024f30: 8d 51 02 lea edx,[ecx+0x2]

c0024f33: ec in al,dx

c0024f34: 3c 01 cmp al,0x1

c0024f36: 75 08 jne c0024f40 <ide\_init+0x20c>

c0024f38: 8d 51 03 lea edx,[ecx+0x3]

c0024f3b: ec in al,dx

c0024f3c: 3c 01 cmp al,0x1

c0024f3e: 74 14 je c0024f54 <ide\_init+0x220>

c0024f40: 83 ec 08 sub esp,0x8

c0024f43: 6a 00 push 0x0

c0024f45: 6a 0a push 0xa

c0024f47: e8 b5 e8 ff ff call c0023801 <timer\_msleep>

c0024f4c: 83 c4 10 add esp,0x10

c0024f4f: 83 ee 01 sub esi,0x1

c0024f52: 75 d8 jne c0024f2c <ide\_init+0x1f8>

c0024f54: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0024f58: e8 ad fa ff ff call c0024a0a <wait\_while\_busy>

c0024f5d: 89 d8 mov eax,ebx

c0024f5f: e8 9a f9 ff ff call c00248fe <check\_device\_type>

c0024f64: 84 c0 test al,al

c0024f66: 74 09 je c0024f71 <ide\_init+0x23d>

c0024f68: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0024f6c: e8 8d f9 ff ff call c00248fe <check\_device\_type>

c0024f71: 80 7b 10 00 cmp BYTE PTR [ebx+0x10],0x0

c0024f75: 74 07 je c0024f7e <ide\_init+0x24a>

c0024f77: 89 d8 mov eax,ebx

c0024f79: e8 f0 fb ff ff call c0024b6e <identify\_ata\_device>

c0024f7e: 80 7b 24 00 cmp BYTE PTR [ebx+0x24],0x0

c0024f82: 74 09 je c0024f8d <ide\_init+0x259>

c0024f84: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0024f88: e8 e1 fb ff ff call c0024b6e <identify\_ata\_device>

c0024f8d: 83 44 24 08 01 add DWORD PTR [esp+0x8],0x1

c0024f92: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c0024f96: 83 44 24 14 6c add DWORD PTR [esp+0x14],0x6c

c0024f9b: 83 c7 6c add edi,0x6c

c0024f9e: 83 44 24 10 02 add DWORD PTR [esp+0x10],0x2

c0024fa3: 83 f8 02 cmp eax,0x2

c0024fa6: 0f 85 ac fd ff ff jne c0024d58 <ide\_init+0x24>

c0024fac: 83 c4 3c add esp,0x3c

c0024faf: 5b pop ebx

c0024fb0: 5e pop esi

c0024fb1: 5f pop edi

c0024fb2: 5d pop ebp

c0024fb3: c3 ret

c0024fb4 <input\_init>:

c0024fb4: 83 ec 18 sub esp,0x18

c0024fb7: 68 80 b5 03 c0 push 0xc003b580

c0024fbc: e8 eb 00 00 00 call c00250ac <intq\_init>

c0024fc1: 83 c4 1c add esp,0x1c

c0024fc4: c3 ret

c0024fc5 <input\_putc>:

c0024fc5: 53 push ebx

c0024fc6: 83 ec 08 sub esp,0x8

c0024fc9: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0024fcd: e8 73 c4 ff ff call c0021445 <intr\_get\_level>

c0024fd2: 85 c0 test eax,eax

c0024fd4: 74 1e je c0024ff4 <input\_putc+0x2f>

c0024fd6: 83 ec 0c sub esp,0xc

c0024fd9: 68 c4 f3 02 c0 push 0xc002f3c4

c0024fde: 68 83 ed 02 c0 push 0xc002ed83

c0024fe3: 68 e4 df 02 c0 push 0xc002dfe4

c0024fe8: 6a 15 push 0x15

c0024fea: 68 c8 05 03 c0 push 0xc00305c8

c0024fef: e8 49 29 00 00 call c002793d <debug\_panic>

c0024ff4: 83 ec 0c sub esp,0xc

c0024ff7: 68 80 b5 03 c0 push 0xc003b580

c0024ffc: e8 17 01 00 00 call c0025118 <intq\_full>

c0025001: 83 c4 10 add esp,0x10

c0025004: 84 c0 test al,al

c0025006: 74 1e je c0025026 <input\_putc+0x61>

c0025008: 83 ec 0c sub esp,0xc

c002500b: 68 de 05 03 c0 push 0xc00305de

c0025010: 68 83 ed 02 c0 push 0xc002ed83

c0025015: 68 e4 df 02 c0 push 0xc002dfe4

c002501a: 6a 16 push 0x16

c002501c: 68 c8 05 03 c0 push 0xc00305c8

c0025021: e8 17 29 00 00 call c002793d <debug\_panic>

c0025026: 83 ec 08 sub esp,0x8

c0025029: 0f b6 db movzx ebx,bl

c002502c: 53 push ebx

c002502d: 68 80 b5 03 c0 push 0xc003b580

c0025032: e8 2f 03 00 00 call c0025366 <intq\_putc>

c0025037: e8 e3 ef ff ff call c002401f <serial\_notify>

c002503c: 83 c4 18 add esp,0x18

c002503f: 5b pop ebx

c0025040: c3 ret

c0025041 <input\_getc>:

c0025041: 56 push esi

c0025042: 53 push ebx

c0025043: 83 ec 04 sub esp,0x4

c0025046: e8 37 c4 ff ff call c0021482 <intr\_disable>

c002504b: 89 c6 mov esi,eax

c002504d: 83 ec 0c sub esp,0xc

c0025050: 68 80 b5 03 c0 push 0xc003b580

c0025055: e8 58 02 00 00 call c00252b2 <intq\_getc>

c002505a: 89 c3 mov ebx,eax

c002505c: e8 be ef ff ff call c002401f <serial\_notify>

c0025061: 89 34 24 mov DWORD PTR [esp],esi

c0025064: e8 20 c4 ff ff call c0021489 <intr\_set\_level>

c0025069: 89 d8 mov eax,ebx

c002506b: 83 c4 14 add esp,0x14

c002506e: 5b pop ebx

c002506f: 5e pop esi

c0025070: c3 ret

c0025071 <input\_full>:

c0025071: 83 ec 0c sub esp,0xc

c0025074: e8 cc c3 ff ff call c0021445 <intr\_get\_level>

c0025079: 85 c0 test eax,eax

c002507b: 74 1e je c002509b <input\_full+0x2a>

c002507d: 83 ec 0c sub esp,0xc

c0025080: 68 c4 f3 02 c0 push 0xc002f3c4

c0025085: 68 83 ed 02 c0 push 0xc002ed83

c002508a: 68 d8 df 02 c0 push 0xc002dfd8

c002508f: 6a 32 push 0x32

c0025091: 68 c8 05 03 c0 push 0xc00305c8

c0025096: e8 a2 28 00 00 call c002793d <debug\_panic>

c002509b: 83 ec 0c sub esp,0xc

c002509e: 68 80 b5 03 c0 push 0xc003b580

c00250a3: e8 70 00 00 00 call c0025118 <intq\_full>

c00250a8: 83 c4 1c add esp,0x1c

c00250ab: c3 ret

c00250ac <intq\_init>:

c00250ac: 53 push ebx

c00250ad: 83 ec 14 sub esp,0x14

c00250b0: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c00250b4: 53 push ebx

c00250b5: e8 47 d6 ff ff call c0022701 <lock\_init>

c00250ba: c7 43 24 00 00 00 00 mov DWORD PTR [ebx+0x24],0x0

c00250c1: c7 43 20 00 00 00 00 mov DWORD PTR [ebx+0x20],0x0

c00250c8: c7 43 6c 00 00 00 00 mov DWORD PTR [ebx+0x6c],0x0

c00250cf: c7 43 68 00 00 00 00 mov DWORD PTR [ebx+0x68],0x0

c00250d6: 83 c4 18 add esp,0x18

c00250d9: 5b pop ebx

c00250da: c3 ret

c00250db <intq\_empty>:

c00250db: 53 push ebx

c00250dc: 83 ec 08 sub esp,0x8

c00250df: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00250e3: e8 5d c3 ff ff call c0021445 <intr\_get\_level>

c00250e8: 85 c0 test eax,eax

c00250ea: 74 1e je c002510a <intq\_empty+0x2f>

c00250ec: 83 ec 0c sub esp,0xc

c00250ef: 68 c4 f3 02 c0 push 0xc002f3c4

c00250f4: 68 83 ed 02 c0 push 0xc002ed83

c00250f9: 68 24 e0 02 c0 push 0xc002e024

c00250fe: 6a 16 push 0x16

c0025100: 68 f3 05 03 c0 push 0xc00305f3

c0025105: e8 33 28 00 00 call c002793d <debug\_panic>

c002510a: 8b 43 6c mov eax,DWORD PTR [ebx+0x6c]

c002510d: 39 43 68 cmp DWORD PTR [ebx+0x68],eax

c0025110: 0f 94 c0 sete al

c0025113: 83 c4 08 add esp,0x8

c0025116: 5b pop ebx

c0025117: c3 ret

c0025118 <intq\_full>:

c0025118: 53 push ebx

c0025119: 83 ec 08 sub esp,0x8

c002511c: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0025120: e8 20 c3 ff ff call c0021445 <intr\_get\_level>

c0025125: 85 c0 test eax,eax

c0025127: 74 1e je c0025147 <intq\_full+0x2f>

c0025129: 83 ec 0c sub esp,0xc

c002512c: 68 c4 f3 02 c0 push 0xc002f3c4

c0025131: 68 83 ed 02 c0 push 0xc002ed83

c0025136: 68 18 e0 02 c0 push 0xc002e018

c002513b: 6a 1e push 0x1e

c002513d: 68 f3 05 03 c0 push 0xc00305f3

c0025142: e8 f6 27 00 00 call c002793d <debug\_panic>

c0025147: 8b 43 68 mov eax,DWORD PTR [ebx+0x68]

c002514a: 83 c0 01 add eax,0x1

c002514d: 99 cdq

c002514e: c1 ea 1a shr edx,0x1a

c0025151: 01 d0 add eax,edx

c0025153: 83 e0 3f and eax,0x3f

c0025156: 29 d0 sub eax,edx

c0025158: 3b 43 6c cmp eax,DWORD PTR [ebx+0x6c]

c002515b: 0f 94 c0 sete al

c002515e: 83 c4 08 add esp,0x8

c0025161: 5b pop ebx

c0025162: c3 ret

c0025163 <wait>:

c0025163: 56 push esi

c0025164: 53 push ebx

c0025165: 83 ec 04 sub esp,0x4

c0025168: 89 c3 mov ebx,eax

c002516a: 89 d6 mov esi,edx

c002516c: e8 50 c5 ff ff call c00216c1 <intr\_context>

c0025171: 84 c0 test al,al

c0025173: 74 1e je c0025193 <wait+0x30>

c0025175: 83 ec 0c sub esp,0xc

c0025178: 68 c1 f4 02 c0 push 0xc002f4c1

c002517d: 68 83 ed 02 c0 push 0xc002ed83

c0025182: 68 04 e0 02 c0 push 0xc002e004

c0025187: 6a 59 push 0x59

c0025189: 68 f3 05 03 c0 push 0xc00305f3

c002518e: e8 aa 27 00 00 call c002793d <debug\_panic>

c0025193: e8 ad c2 ff ff call c0021445 <intr\_get\_level>

c0025198: 85 c0 test eax,eax

c002519a: 74 1e je c00251ba <wait+0x57>

c002519c: 83 ec 0c sub esp,0xc

c002519f: 68 c4 f3 02 c0 push 0xc002f3c4

c00251a4: 68 83 ed 02 c0 push 0xc002ed83

c00251a9: 68 04 e0 02 c0 push 0xc002e004

c00251ae: 6a 5a push 0x5a

c00251b0: 68 f3 05 03 c0 push 0xc00305f3

c00251b5: e8 83 27 00 00 call c002793d <debug\_panic>

c00251ba: 8d 43 24 lea eax,[ebx+0x24]

c00251bd: 39 c6 cmp esi,eax

c00251bf: 75 10 jne c00251d1 <wait+0x6e>

c00251c1: 83 ec 0c sub esp,0xc

c00251c4: 53 push ebx

c00251c5: e8 11 ff ff ff call c00250db <intq\_empty>

c00251ca: 83 c4 10 add esp,0x10

c00251cd: 84 c0 test al,al

c00251cf: 75 35 jne c0025206 <wait+0xa3>

c00251d1: 8d 43 20 lea eax,[ebx+0x20]

c00251d4: 39 c6 cmp esi,eax

c00251d6: 75 10 jne c00251e8 <wait+0x85>

c00251d8: 83 ec 0c sub esp,0xc

c00251db: 53 push ebx

c00251dc: e8 37 ff ff ff call c0025118 <intq\_full>

c00251e1: 83 c4 10 add esp,0x10

c00251e4: 84 c0 test al,al

c00251e6: 75 1e jne c0025206 <wait+0xa3>

c00251e8: 83 ec 0c sub esp,0xc

c00251eb: 68 08 06 03 c0 push 0xc0030608

c00251f0: 68 83 ed 02 c0 push 0xc002ed83

c00251f5: 68 04 e0 02 c0 push 0xc002e004

c00251fa: 6a 5c push 0x5c

c00251fc: 68 f3 05 03 c0 push 0xc00305f3

c0025201: e8 37 27 00 00 call c002793d <debug\_panic>

c0025206: e8 e0 b9 ff ff call c0020beb <thread\_current>

c002520b: 89 06 mov DWORD PTR [esi],eax

c002520d: e8 7e be ff ff call c0021090 <thread\_block>

c0025212: 83 c4 04 add esp,0x4

c0025215: 5b pop ebx

c0025216: 5e pop esi

c0025217: c3 ret

c0025218 <signal>:

c0025218: 56 push esi

c0025219: 53 push ebx

c002521a: 83 ec 04 sub esp,0x4

c002521d: 89 c6 mov esi,eax

c002521f: 89 d3 mov ebx,edx

c0025221: e8 1f c2 ff ff call c0021445 <intr\_get\_level>

c0025226: 85 c0 test eax,eax

c0025228: 74 1e je c0025248 <signal+0x30>

c002522a: 83 ec 0c sub esp,0xc

c002522d: 68 c4 f3 02 c0 push 0xc002f3c4

c0025232: 68 83 ed 02 c0 push 0xc002ed83

c0025237: 68 fc df 02 c0 push 0xc002dffc

c002523c: 6a 69 push 0x69

c002523e: 68 f3 05 03 c0 push 0xc00305f3

c0025243: e8 f5 26 00 00 call c002793d <debug\_panic>

c0025248: 8d 46 24 lea eax,[esi+0x24]

c002524b: 39 c3 cmp ebx,eax

c002524d: 75 10 jne c002525f <signal+0x47>

c002524f: 83 ec 0c sub esp,0xc

c0025252: 56 push esi

c0025253: e8 83 fe ff ff call c00250db <intq\_empty>

c0025258: 83 c4 10 add esp,0x10

c002525b: 84 c0 test al,al

c002525d: 74 35 je c0025294 <signal+0x7c>

c002525f: 8d 46 20 lea eax,[esi+0x20]

c0025262: 39 c3 cmp ebx,eax

c0025264: 75 10 jne c0025276 <signal+0x5e>

c0025266: 83 ec 0c sub esp,0xc

c0025269: 56 push esi

c002526a: e8 a9 fe ff ff call c0025118 <intq\_full>

c002526f: 83 c4 10 add esp,0x10

c0025272: 84 c0 test al,al

c0025274: 74 1e je c0025294 <signal+0x7c>

c0025276: 83 ec 0c sub esp,0xc

c0025279: 68 64 06 03 c0 push 0xc0030664

c002527e: 68 83 ed 02 c0 push 0xc002ed83

c0025283: 68 fc df 02 c0 push 0xc002dffc

c0025288: 6a 6b push 0x6b

c002528a: 68 f3 05 03 c0 push 0xc00305f3

c002528f: e8 a9 26 00 00 call c002793d <debug\_panic>

c0025294: 8b 03 mov eax,DWORD PTR [ebx]

c0025296: 85 c0 test eax,eax

c0025298: 74 12 je c00252ac <signal+0x94>

c002529a: 83 ec 0c sub esp,0xc

c002529d: 50 push eax

c002529e: e8 b4 b8 ff ff call c0020b57 <thread\_unblock>

c00252a3: c7 03 00 00 00 00 mov DWORD PTR [ebx],0x0

c00252a9: 83 c4 10 add esp,0x10

c00252ac: 83 c4 04 add esp,0x4

c00252af: 5b pop ebx

c00252b0: 5e pop esi

c00252b1: c3 ret

c00252b2 <intq\_getc>:

c00252b2: 56 push esi

c00252b3: 53 push ebx

c00252b4: 83 ec 04 sub esp,0x4

c00252b7: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00252bb: e8 85 c1 ff ff call c0021445 <intr\_get\_level>

c00252c0: 85 c0 test eax,eax

c00252c2: 74 64 je c0025328 <intq\_getc+0x76>

c00252c4: 83 ec 0c sub esp,0xc

c00252c7: 68 c4 f3 02 c0 push 0xc002f3c4

c00252cc: 68 83 ed 02 c0 push 0xc002ed83

c00252d1: 68 0c e0 02 c0 push 0xc002e00c

c00252d6: 6a 2a push 0x2a

c00252d8: 68 f3 05 03 c0 push 0xc00305f3

c00252dd: e8 5b 26 00 00 call c002793d <debug\_panic>

c00252e2: e8 da c3 ff ff call c00216c1 <intr\_context>

c00252e7: 84 c0 test al,al

c00252e9: 74 1e je c0025309 <intq\_getc+0x57>

c00252eb: 83 ec 0c sub esp,0xc

c00252ee: 68 c1 f4 02 c0 push 0xc002f4c1

c00252f3: 68 83 ed 02 c0 push 0xc002ed83

c00252f8: 68 0c e0 02 c0 push 0xc002e00c

c00252fd: 6a 2d push 0x2d

c00252ff: 68 f3 05 03 c0 push 0xc00305f3

c0025304: e8 34 26 00 00 call c002793d <debug\_panic>

c0025309: 83 ec 0c sub esp,0xc

c002530c: 53 push ebx

c002530d: e8 71 d4 ff ff call c0022783 <lock\_acquire>

c0025312: 89 f2 mov edx,esi

c0025314: 89 d8 mov eax,ebx

c0025316: e8 48 fe ff ff call c0025163 <wait>

c002531b: 89 1c 24 mov DWORD PTR [esp],ebx

c002531e: e8 b0 d5 ff ff call c00228d3 <lock\_release>

c0025323: 83 c4 10 add esp,0x10

c0025326: eb 03 jmp c002532b <intq\_getc+0x79>

c0025328: 8d 73 24 lea esi,[ebx+0x24]

c002532b: 83 ec 0c sub esp,0xc

c002532e: 53 push ebx

c002532f: e8 a7 fd ff ff call c00250db <intq\_empty>

c0025334: 83 c4 10 add esp,0x10

c0025337: 84 c0 test al,al

c0025339: 75 a7 jne c00252e2 <intq\_getc+0x30>

c002533b: 8b 43 6c mov eax,DWORD PTR [ebx+0x6c]

c002533e: 0f b6 74 03 28 movzx esi,BYTE PTR [ebx+eax\*1+0x28]

c0025343: 83 c0 01 add eax,0x1

c0025346: 99 cdq

c0025347: c1 ea 1a shr edx,0x1a

c002534a: 01 d0 add eax,edx

c002534c: 83 e0 3f and eax,0x3f

c002534f: 29 d0 sub eax,edx

c0025351: 89 43 6c mov DWORD PTR [ebx+0x6c],eax

c0025354: 8d 53 20 lea edx,[ebx+0x20]

c0025357: 89 d8 mov eax,ebx

c0025359: e8 ba fe ff ff call c0025218 <signal>

c002535e: 89 f0 mov eax,esi

c0025360: 83 c4 04 add esp,0x4

c0025363: 5b pop ebx

c0025364: 5e pop esi

c0025365: c3 ret

c0025366 <intq\_putc>:

c0025366: 57 push edi

c0025367: 56 push esi

c0025368: 53 push ebx

c0025369: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002536d: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c0025371: e8 cf c0 ff ff call c0021445 <intr\_get\_level>

c0025376: 85 c0 test eax,eax

c0025378: 74 64 je c00253de <intq\_putc+0x78>

c002537a: 83 ec 0c sub esp,0xc

c002537d: 68 c4 f3 02 c0 push 0xc002f3c4

c0025382: 68 83 ed 02 c0 push 0xc002ed83

c0025387: 68 f0 df 02 c0 push 0xc002dff0

c002538c: 6a 3f push 0x3f

c002538e: 68 f3 05 03 c0 push 0xc00305f3

c0025393: e8 a5 25 00 00 call c002793d <debug\_panic>

c0025398: e8 24 c3 ff ff call c00216c1 <intr\_context>

c002539d: 84 c0 test al,al

c002539f: 74 1e je c00253bf <intq\_putc+0x59>

c00253a1: 83 ec 0c sub esp,0xc

c00253a4: 68 c1 f4 02 c0 push 0xc002f4c1

c00253a9: 68 83 ed 02 c0 push 0xc002ed83

c00253ae: 68 f0 df 02 c0 push 0xc002dff0

c00253b3: 6a 42 push 0x42

c00253b5: 68 f3 05 03 c0 push 0xc00305f3

c00253ba: e8 7e 25 00 00 call c002793d <debug\_panic>

c00253bf: 83 ec 0c sub esp,0xc

c00253c2: 53 push ebx

c00253c3: e8 bb d3 ff ff call c0022783 <lock\_acquire>

c00253c8: 89 f2 mov edx,esi

c00253ca: 89 d8 mov eax,ebx

c00253cc: e8 92 fd ff ff call c0025163 <wait>

c00253d1: 89 1c 24 mov DWORD PTR [esp],ebx

c00253d4: e8 fa d4 ff ff call c00228d3 <lock\_release>

c00253d9: 83 c4 10 add esp,0x10

c00253dc: eb 03 jmp c00253e1 <intq\_putc+0x7b>

c00253de: 8d 73 20 lea esi,[ebx+0x20]

c00253e1: 83 ec 0c sub esp,0xc

c00253e4: 53 push ebx

c00253e5: e8 2e fd ff ff call c0025118 <intq\_full>

c00253ea: 83 c4 10 add esp,0x10

c00253ed: 84 c0 test al,al

c00253ef: 75 a7 jne c0025398 <intq\_putc+0x32>

c00253f1: 8b 43 68 mov eax,DWORD PTR [ebx+0x68]

c00253f4: 89 f9 mov ecx,edi

c00253f6: 88 4c 03 28 mov BYTE PTR [ebx+eax\*1+0x28],cl

c00253fa: 83 c0 01 add eax,0x1

c00253fd: 99 cdq

c00253fe: c1 ea 1a shr edx,0x1a

c0025401: 01 d0 add eax,edx

c0025403: 83 e0 3f and eax,0x3f

c0025406: 29 d0 sub eax,edx

c0025408: 89 43 68 mov DWORD PTR [ebx+0x68],eax

c002540b: 8d 53 24 lea edx,[ebx+0x24]

c002540e: 89 d8 mov eax,ebx

c0025410: e8 03 fe ff ff call c0025218 <signal>

c0025415: 5b pop ebx

c0025416: 5e pop esi

c0025417: 5f pop edi

c0025418: c3 ret

c0025419 <rtc\_get\_time>:

c0025419: 55 push ebp

c002541a: 57 push edi

c002541b: 56 push esi

c002541c: 53 push ebx

c002541d: 83 ec 24 sub esp,0x24

c0025420: be 00 00 00 00 mov esi,0x0

c0025425: bf 02 00 00 00 mov edi,0x2

c002542a: 89 f0 mov eax,esi

c002542c: e6 70 out 0x70,al

c002542e: e4 71 in al,0x71

c0025430: 89 c2 mov edx,eax

c0025432: c0 ea 04 shr dl,0x4

c0025435: 0f b6 d2 movzx edx,dl

c0025438: 8d 14 92 lea edx,[edx+edx\*4]

c002543b: 83 e0 0f and eax,0xf

c002543e: 8d 1c 50 lea ebx,[eax+edx\*2]

c0025441: 89 f8 mov eax,edi

c0025443: e6 70 out 0x70,al

c0025445: e4 71 in al,0x71

c0025447: 88 44 24 10 mov BYTE PTR [esp+0x10],al

c002544b: b8 04 00 00 00 mov eax,0x4

c0025450: e6 70 out 0x70,al

c0025452: e4 71 in al,0x71

c0025454: 88 04 24 mov BYTE PTR [esp],al

c0025457: b8 07 00 00 00 mov eax,0x7

c002545c: e6 70 out 0x70,al

c002545e: e4 71 in al,0x71

c0025460: 88 44 24 23 mov BYTE PTR [esp+0x23],al

c0025464: b8 08 00 00 00 mov eax,0x8

c0025469: e6 70 out 0x70,al

c002546b: e4 71 in al,0x71

c002546d: 88 44 24 22 mov BYTE PTR [esp+0x22],al

c0025471: b8 09 00 00 00 mov eax,0x9

c0025476: e6 70 out 0x70,al

c0025478: e4 71 in al,0x71

c002547a: 89 c1 mov ecx,eax

c002547c: 89 f0 mov eax,esi

c002547e: e6 70 out 0x70,al

c0025480: e4 71 in al,0x71

c0025482: 89 c2 mov edx,eax

c0025484: c0 ea 04 shr dl,0x4

c0025487: 0f b6 ea movzx ebp,dl

c002548a: 8d 6c ad 00 lea ebp,[ebp+ebp\*4+0x0]

c002548e: 83 e0 0f and eax,0xf

c0025491: 8d 04 68 lea eax,[eax+ebp\*2]

c0025494: 39 d8 cmp eax,ebx

c0025496: 75 92 jne c002542a <rtc\_get\_time+0x11>

c0025498: 89 c8 mov eax,ecx

c002549a: c0 e8 04 shr al,0x4

c002549d: 0f b6 c0 movzx eax,al

c00254a0: 8d 04 80 lea eax,[eax+eax\*4]

c00254a3: 83 e1 0f and ecx,0xf

c00254a6: 8d 04 41 lea eax,[ecx+eax\*2]

c00254a9: 8d 48 64 lea ecx,[eax+0x64]

c00254ac: 83 f8 45 cmp eax,0x45

c00254af: 0f 4e c1 cmovle eax,ecx

c00254b2: 0f b6 54 24 22 movzx edx,BYTE PTR [esp+0x22]

c00254b7: 89 d1 mov ecx,edx

c00254b9: c0 e9 04 shr cl,0x4

c00254bc: 0f b6 c9 movzx ecx,cl

c00254bf: 8d 0c 89 lea ecx,[ecx+ecx\*4]

c00254c2: 83 e2 0f and edx,0xf

c00254c5: 8d 34 4a lea esi,[edx+ecx\*2]

c00254c8: 8d 78 ba lea edi,[eax-0x46]

c00254cb: 8d 50 bc lea edx,[eax-0x44]

c00254ce: 83 e8 47 sub eax,0x47

c00254d1: 0f 48 c2 cmovs eax,edx

c00254d4: c1 f8 02 sar eax,0x2

c00254d7: 69 cf 6d 01 00 00 imul ecx,edi,0x16d

c00254dd: 01 c1 add ecx,eax

c00254df: 69 c9 80 51 01 00 imul ecx,ecx,0x15180

c00254e5: 85 f6 test esi,esi

c00254e7: 7e 19 jle c0025502 <rtc\_get\_time+0xe9>

c00254e9: ba 01 00 00 00 mov edx,0x1

c00254ee: 69 04 95 3c e0 02 c0 imul eax,DWORD PTR [edx\*4-0x3ffd1fc4],

0x15180

c00254f5: 80 51 01 00

c00254f9: 01 c1 add ecx,eax

c00254fb: 83 c2 01 add edx,0x1

c00254fe: 39 f2 cmp edx,esi

c0025500: 7e ec jle c00254ee <rtc\_get\_time+0xd5>

c0025502: 83 fe 02 cmp esi,0x2

c0025505: 7e 0e jle c0025515 <rtc\_get\_time+0xfc>

c0025507: 83 e7 03 and edi,0x3

c002550a: 8d 81 80 51 01 00 lea eax,[ecx+0x15180]

c0025510: 85 ff test edi,edi

c0025512: 0f 44 c8 cmove ecx,eax

c0025515: 0f b6 04 24 movzx eax,BYTE PTR [esp]

c0025519: c0 e8 04 shr al,0x4

c002551c: 0f b6 c0 movzx eax,al

c002551f: 8d 14 80 lea edx,[eax+eax\*4]

c0025522: 8b 04 24 mov eax,DWORD PTR [esp]

c0025525: 83 e0 0f and eax,0xf

c0025528: 8d 04 50 lea eax,[eax+edx\*2]

c002552b: 69 d0 10 0e 00 00 imul edx,eax,0xe10

c0025531: 0f b6 44 24 10 movzx eax,BYTE PTR [esp+0x10]

c0025536: c0 e8 04 shr al,0x4

c0025539: 0f b6 c0 movzx eax,al

c002553c: 8d 34 80 lea esi,[eax+eax\*4]

c002553f: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0025543: 83 e0 0f and eax,0xf

c0025546: 8d 04 70 lea eax,[eax+esi\*2]

c0025549: 6b c0 3c imul eax,eax,0x3c

c002554c: 01 d0 add eax,edx

c002554e: 01 c3 add ebx,eax

c0025550: 0f b6 54 24 23 movzx edx,BYTE PTR [esp+0x23]

c0025555: 89 d0 mov eax,edx

c0025557: c0 e8 04 shr al,0x4

c002555a: 0f b6 c0 movzx eax,al

c002555d: 8d 04 80 lea eax,[eax+eax\*4]

c0025560: 83 e2 0f and edx,0xf

c0025563: 8d 44 42 ff lea eax,[edx+eax\*2-0x1]

c0025567: 69 c0 80 51 01 00 imul eax,eax,0x15180

c002556d: 01 c3 add ebx,eax

c002556f: 8d 04 0b lea eax,[ebx+ecx\*1]

c0025572: 83 c4 24 add esp,0x24

c0025575: 5b pop ebx

c0025576: 5e pop esi

c0025577: 5f pop edi

c0025578: 5d pop ebp

c0025579: c3 ret

c002557a <shutdown\_configure>:

c002557a: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002557e: a3 f0 b5 03 c0 mov ds:0xc003b5f0,eax

c0025583: c3 ret

c0025584 <shutdown\_reboot>:

c0025584: 56 push esi

c0025585: 53 push ebx

c0025586: 83 ec 10 sub esp,0x10

c0025589: 68 bf 06 03 c0 push 0xc00306bf

c002558e: e8 bd 3e 00 00 call c0029450 <puts>

c0025593: 83 c4 10 add esp,0x10

c0025596: be fe ff ff ff mov esi,0xfffffffe

c002559b: e4 64 in al,0x64

c002559d: a8 02 test al,0x2

c002559f: 75 3d jne c00255de <shutdown\_reboot+0x5a>

c00255a1: eb 1a jmp c00255bd <shutdown\_reboot+0x39>

c00255a3: e4 64 in al,0x64

c00255a5: a8 02 test al,0x2

c00255a7: 74 14 je c00255bd <shutdown\_reboot+0x39>

c00255a9: 83 ec 08 sub esp,0x8

c00255ac: 6a 00 push 0x0

c00255ae: 6a 02 push 0x2

c00255b0: e8 b0 e2 ff ff call c0023865 <timer\_udelay>

c00255b5: 83 c4 10 add esp,0x10

c00255b8: 83 eb 01 sub ebx,0x1

c00255bb: 75 e6 jne c00255a3 <shutdown\_reboot+0x1f>

c00255bd: 83 ec 08 sub esp,0x8

c00255c0: 6a 00 push 0x0

c00255c2: 6a 32 push 0x32

c00255c4: e8 9c e2 ff ff call c0023865 <timer\_udelay>

c00255c9: 89 f0 mov eax,esi

c00255cb: e6 64 out 0x64,al

c00255cd: 83 c4 08 add esp,0x8

c00255d0: 6a 00 push 0x0

c00255d2: 6a 32 push 0x32

c00255d4: e8 8c e2 ff ff call c0023865 <timer\_udelay>

c00255d9: 83 c4 10 add esp,0x10

c00255dc: eb bd jmp c002559b <shutdown\_reboot+0x17>

c00255de: 83 ec 08 sub esp,0x8

c00255e1: 6a 00 push 0x0

c00255e3: 6a 02 push 0x2

c00255e5: e8 7b e2 ff ff call c0023865 <timer\_udelay>

c00255ea: 83 c4 10 add esp,0x10

c00255ed: bb ff ff 00 00 mov ebx,0xffff

c00255f2: eb af jmp c00255a3 <shutdown\_reboot+0x1f>

c00255f4 <shutdown\_power\_off>:

c00255f4: 83 ec 1c sub esp,0x1c

c00255f7: c7 44 24 07 53 68 75 mov DWORD PTR [esp+0x7],0x74756853

c00255fe: 74

c00255ff: c7 44 24 0b 64 6f 77 mov DWORD PTR [esp+0xb],0x6e776f64

c0025606: 6e

c0025607: c6 44 24 0f 00 mov BYTE PTR [esp+0xf],0x0

c002560c: e8 b1 60 00 00 call c002b6c2 <filesys\_done>

c0025611: e8 81 e2 ff ff call c0023897 <timer\_print\_stats>

c0025616: e8 07 b5 ff ff call c0020b22 <thread\_print\_stats>

c002561b: e8 65 ec ff ff call c0024285 <block\_print\_stats>

c0025620: e8 da 3d 00 00 call c00293ff <console\_print\_stats>

c0025625: e8 bc e4 ff ff call c0023ae6 <kbd\_print\_stats>

c002562a: e8 97 53 00 00 call c002a9c6 <exception\_print\_stats>

c002562f: 83 ec 0c sub esp,0xc

c0025632: 68 cc 06 03 c0 push 0xc00306cc

c0025637: e8 14 3e 00 00 call c0029450 <puts>

c002563c: e8 97 e9 ff ff call c0023fd8 <serial\_flush>

c0025641: 0f b6 44 24 17 movzx eax,BYTE PTR [esp+0x17]

c0025646: 83 c4 10 add esp,0x10

c0025649: 84 c0 test al,al

c002564b: 74 14 je c0025661 <shutdown\_power\_off+0x6d

>

c002564d: 8d 4c 24 07 lea ecx,[esp+0x7]

c0025651: ba 00 89 ff ff mov edx,0xffff8900

c0025656: ee out dx,al

c0025657: 83 c1 01 add ecx,0x1

c002565a: 0f b6 01 movzx eax,BYTE PTR [ecx]

c002565d: 84 c0 test al,al

c002565f: 75 f5 jne c0025656 <shutdown\_power\_off+0x62

>

c0025661: fa cli

c0025662: f4 hlt

c0025663: 83 ec 0c sub esp,0xc

c0025666: 68 dc 06 03 c0 push 0xc00306dc

c002566b: e8 e0 3d 00 00 call c0029450 <puts>

c0025670: 83 c4 10 add esp,0x10

c0025673: eb fe jmp c0025673 <shutdown\_power\_off+0x7f

>

c0025675 <shutdown>:

c0025675: 83 ec 0c sub esp,0xc

c0025678: a1 f0 b5 03 c0 mov eax,ds:0xc003b5f0

c002567d: 83 f8 01 cmp eax,0x1

c0025680: 74 07 je c0025689 <shutdown+0x14>

c0025682: 83 f8 02 cmp eax,0x2

c0025685: 74 07 je c002568e <shutdown+0x19>

c0025687: eb 0a jmp c0025693 <shutdown+0x1e>

c0025689: e8 66 ff ff ff call c00255f4 <shutdown\_power\_off>

c002568e: e8 f1 fe ff ff call c0025584 <shutdown\_reboot>

c0025693: 83 c4 0c add esp,0xc

c0025696: c3 ret

c0025697 <speaker\_off>:

c0025697: 83 ec 0c sub esp,0xc

c002569a: e8 e3 bd ff ff call c0021482 <intr\_disable>

c002569f: 89 c2 mov edx,eax

c00256a1: e4 61 in al,0x61

c00256a3: 83 e0 fc and eax,0xfffffffc

c00256a6: e6 61 out 0x61,al

c00256a8: 83 ec 0c sub esp,0xc

c00256ab: 52 push edx

c00256ac: e8 d8 bd ff ff call c0021489 <intr\_set\_level>

c00256b1: 83 c4 1c add esp,0x1c

c00256b4: c3 ret

c00256b5 <speaker\_on>:

c00256b5: 56 push esi

c00256b6: 53 push ebx

c00256b7: 83 ec 04 sub esp,0x4

c00256ba: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00256be: 8d 43 ec lea eax,[ebx-0x14]

c00256c1: 3d 0c 4e 00 00 cmp eax,0x4e0c

c00256c6: 77 28 ja c00256f0 <speaker\_on+0x3b>

c00256c8: e8 b5 bd ff ff call c0021482 <intr\_disable>

c00256cd: 89 c6 mov esi,eax

c00256cf: 83 ec 04 sub esp,0x4

c00256d2: 53 push ebx

c00256d3: 6a 03 push 0x3

c00256d5: 6a 02 push 0x2

c00256d7: e8 08 dd ff ff call c00233e4 <pit\_configure\_channel>

c00256dc: e4 61 in al,0x61

c00256de: 83 c8 03 or eax,0x3

c00256e1: e6 61 out 0x61,al

c00256e3: 89 34 24 mov DWORD PTR [esp],esi

c00256e6: e8 9e bd ff ff call c0021489 <intr\_set\_level>

c00256eb: 83 c4 10 add esp,0x10

c00256ee: eb 05 jmp c00256f5 <speaker\_on+0x40>

c00256f0: e8 a2 ff ff ff call c0025697 <speaker\_off>

c00256f5: 83 c4 04 add esp,0x4

c00256f8: 5b pop ebx

c00256f9: 5e pop esi

c00256fa: c3 ret

c00256fb <speaker\_beep>:

c00256fb: 83 ec 0c sub esp,0xc

c00256fe: e8 42 bd ff ff call c0021445 <intr\_get\_level>

c0025703: 83 f8 01 cmp eax,0x1

c0025706: 75 24 jne c002572c <speaker\_beep+0x31>

c0025708: 83 ec 0c sub esp,0xc

c002570b: 68 b8 01 00 00 push 0x1b8

c0025710: e8 a0 ff ff ff call c00256b5 <speaker\_on>

c0025715: 83 c4 08 add esp,0x8

c0025718: 6a 00 push 0x0

c002571a: 68 fa 00 00 00 push 0xfa

c002571f: e8 dd e0 ff ff call c0023801 <timer\_msleep>

c0025724: e8 6e ff ff ff call c0025697 <speaker\_off>

c0025729: 83 c4 10 add esp,0x10

c002572c: 83 c4 0c add esp,0xc

c002572f: c3 ret

c0025730 <debug\_backtrace>:

c0025730: 55 push ebp

c0025731: 89 e5 mov ebp,esp

c0025733: 53 push ebx

c0025734: 83 ec 0c sub esp,0xc

c0025737: ff 75 04 push DWORD PTR [ebp+0x4]

c002573a: 68 ed 06 03 c0 push 0xc00306ed

c002573f: e8 81 05 00 00 call c0025cc5 <printf>

c0025744: 8b 5d 00 mov ebx,DWORD PTR [ebp+0x0]

c0025747: 83 c4 10 add esp,0x10

c002574a: 81 fb ff 0f 00 00 cmp ebx,0xfff

c0025750: 76 27 jbe c0025779 <debug\_backtrace+0x49>

c0025752: 83 3b 00 cmp DWORD PTR [ebx],0x0

c0025755: 74 22 je c0025779 <debug\_backtrace+0x49>

c0025757: 83 ec 08 sub esp,0x8

c002575a: ff 73 04 push DWORD PTR [ebx+0x4]

c002575d: 68 f8 06 03 c0 push 0xc00306f8

c0025762: e8 5e 05 00 00 call c0025cc5 <printf>

c0025767: 8b 1b mov ebx,DWORD PTR [ebx]

c0025769: 83 c4 10 add esp,0x10

c002576c: 81 fb ff 0f 00 00 cmp ebx,0xfff

c0025772: 76 05 jbe c0025779 <debug\_backtrace+0x49>

c0025774: 83 3b 00 cmp DWORD PTR [ebx],0x0

c0025777: 75 de jne c0025757 <debug\_backtrace+0x27>

c0025779: 83 ec 0c sub esp,0xc

c002577c: 68 8f 02 03 c0 push 0xc003028f

c0025781: e8 ca 3c 00 00 call c0029450 <puts>

c0025786: 83 c4 10 add esp,0x10

c0025789: 80 3d f4 b5 03 c0 00 cmp BYTE PTR ds:0xc003b5f4,0x0

c0025790: 75 17 jne c00257a9 <debug\_backtrace+0x79>

c0025792: c6 05 f4 b5 03 c0 01 mov BYTE PTR ds:0xc003b5f4,0x1

c0025799: 83 ec 0c sub esp,0xc

c002579c: 68 fc 06 03 c0 push 0xc00306fc

c00257a1: e8 aa 3c 00 00 call c0029450 <puts>

c00257a6: 83 c4 10 add esp,0x10

c00257a9: 8b 5d fc mov ebx,DWORD PTR [ebp-0x4]

c00257ac: c9 leave

c00257ad: c3 ret

c00257ae <random\_init>:

c00257ae: b8 00 00 00 00 mov eax,0x0

c00257b3: 88 80 20 b6 03 c0 mov BYTE PTR [eax-0x3ffc49e0],al

c00257b9: 83 c0 01 add eax,0x1

c00257bc: 3d 00 01 00 00 cmp eax,0x100

c00257c1: 75 f0 jne c00257b3 <random\_init+0x5>

c00257c3: 56 push esi

c00257c4: 53 push ebx

c00257c5: be 00 00 00 00 mov esi,0x0

c00257ca: b8 00 00 00 00 mov eax,0x0

c00257cf: 89 c1 mov ecx,eax

c00257d1: 83 e1 03 and ecx,0x3

c00257d4: 0f b6 98 20 b6 03 c0 movzx ebx,BYTE PTR [eax-0x3ffc49e0]

c00257db: 89 da mov edx,ebx

c00257dd: 02 54 0c 0c add dl,BYTE PTR [esp+ecx\*1+0xc]

c00257e1: 89 d1 mov ecx,edx

c00257e3: 01 ce add esi,ecx

c00257e5: 89 f2 mov edx,esi

c00257e7: 0f b6 ca movzx ecx,dl

c00257ea: 0f b6 91 20 b6 03 c0 movzx edx,BYTE PTR [ecx-0x3ffc49e0]

c00257f1: 88 90 20 b6 03 c0 mov BYTE PTR [eax-0x3ffc49e0],dl

c00257f7: 88 99 20 b6 03 c0 mov BYTE PTR [ecx-0x3ffc49e0],bl

c00257fd: 83 c0 01 add eax,0x1

c0025800: 3d 00 01 00 00 cmp eax,0x100

c0025805: 75 c8 jne c00257cf <random\_init+0x21>

c0025807: c6 05 01 b6 03 c0 00 mov BYTE PTR ds:0xc003b601,0x0

c002580e: c6 05 02 b6 03 c0 00 mov BYTE PTR ds:0xc003b602,0x0

c0025815: c6 05 00 b6 03 c0 01 mov BYTE PTR ds:0xc003b600,0x1

c002581c: 5b pop ebx

c002581d: 5e pop esi

c002581e: c3 ret

c002581f <random\_bytes>:

c002581f: 55 push ebp

c0025820: 57 push edi

c0025821: 56 push esi

c0025822: 53 push ebx

c0025823: 83 ec 08 sub esp,0x8

c0025826: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c002582a: 8b 6c 24 20 mov ebp,DWORD PTR [esp+0x20]

c002582e: 80 3d 00 b6 03 c0 00 cmp BYTE PTR ds:0xc003b600,0x0

c0025835: 75 0a jne c0025841 <random\_bytes+0x22>

c0025837: 6a 00 push 0x0

c0025839: e8 70 ff ff ff call c00257ae <random\_init>

c002583e: 83 c4 04 add esp,0x4

c0025841: 8d 45 ff lea eax,[ebp-0x1]

c0025844: 89 04 24 mov DWORD PTR [esp],eax

c0025847: 85 ed test ebp,ebp

c0025849: 0f 84 82 00 00 00 je c00258d1 <random\_bytes+0xb2>

c002584f: 0f b6 05 02 b6 03 c0 movzx eax,BYTE PTR ds:0xc003b602

c0025856: 88 44 24 07 mov BYTE PTR [esp+0x7],al

c002585a: 0f b6 35 01 b6 03 c0 movzx esi,BYTE PTR ds:0xc003b601

c0025861: 01 dd add ebp,ebx

c0025863: 88 44 24 06 mov BYTE PTR [esp+0x6],al

c0025867: 80 44 24 06 01 add BYTE PTR [esp+0x6],0x1

c002586c: 0f b6 44 24 06 movzx eax,BYTE PTR [esp+0x6]

c0025871: 0f b6 d0 movzx edx,al

c0025874: 89 f0 mov eax,esi

c0025876: 02 82 20 b6 03 c0 add al,BYTE PTR [edx-0x3ffc49e0]

c002587c: 89 c6 mov esi,eax

c002587e: 0f b6 c0 movzx eax,al

c0025881: 0f b6 ba 20 b6 03 c0 movzx edi,BYTE PTR [edx-0x3ffc49e0]

c0025888: 0f b6 88 20 b6 03 c0 movzx ecx,BYTE PTR [eax-0x3ffc49e0]

c002588f: 88 8a 20 b6 03 c0 mov BYTE PTR [edx-0x3ffc49e0],cl

c0025895: 89 f9 mov ecx,edi

c0025897: 88 88 20 b6 03 c0 mov BYTE PTR [eax-0x3ffc49e0],cl

c002589d: 89 f8 mov eax,edi

c002589f: 02 82 20 b6 03 c0 add al,BYTE PTR [edx-0x3ffc49e0]

c00258a5: 0f b6 c0 movzx eax,al

c00258a8: 0f b6 80 20 b6 03 c0 movzx eax,BYTE PTR [eax-0x3ffc49e0]

c00258af: 88 03 mov BYTE PTR [ebx],al

c00258b1: 83 c3 01 add ebx,0x1

c00258b4: 39 dd cmp ebp,ebx

c00258b6: 75 af jne c0025867 <random\_bytes+0x48>

c00258b8: 0f b6 44 24 07 movzx eax,BYTE PTR [esp+0x7]

c00258bd: 0f b6 3c 24 movzx edi,BYTE PTR [esp]

c00258c1: 8d 44 38 01 lea eax,[eax+edi\*1+0x1]

c00258c5: a2 02 b6 03 c0 mov ds:0xc003b602,al

c00258ca: 89 f0 mov eax,esi

c00258cc: a2 01 b6 03 c0 mov ds:0xc003b601,al

c00258d1: 83 c4 08 add esp,0x8

c00258d4: 5b pop ebx

c00258d5: 5e pop esi

c00258d6: 5f pop edi

c00258d7: 5d pop ebp

c00258d8: c3 ret

c00258d9 <random\_ulong>:

c00258d9: 83 ec 10 sub esp,0x10

c00258dc: 6a 04 push 0x4

c00258de: 8d 44 24 10 lea eax,[esp+0x10]

c00258e2: 50 push eax

c00258e3: e8 37 ff ff ff call c002581f <random\_bytes>

c00258e8: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c00258ec: 83 c4 18 add esp,0x18

c00258ef: c3 ret

c00258f0 <vsnprintf\_helper>:

c00258f0: 53 push ebx

c00258f1: 8b 5c 24 08 mov ebx,DWORD PTR [esp+0x8]

c00258f5: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c00258f9: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c00258fc: 8d 4a 01 lea ecx,[edx+0x1]

c00258ff: 89 48 04 mov DWORD PTR [eax+0x4],ecx

c0025902: 3b 50 08 cmp edx,DWORD PTR [eax+0x8]

c0025905: 7d 09 jge c0025910 <vsnprintf\_helper+0x20>

c0025907: 8b 10 mov edx,DWORD PTR [eax]

c0025909: 8d 4a 01 lea ecx,[edx+0x1]

c002590c: 89 08 mov DWORD PTR [eax],ecx

c002590e: 88 1a mov BYTE PTR [edx],bl

c0025910: 5b pop ebx

c0025911: c3 ret

c0025912 <output\_dup>:

c0025912: 55 push ebp

c0025913: 57 push edi

c0025914: 56 push esi

c0025915: 53 push ebx

c0025916: 83 ec 0c sub esp,0xc

c0025919: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c002591d: 85 d2 test edx,edx

c002591f: 74 16 je c0025937 <output\_dup+0x25>

c0025921: 89 cd mov ebp,ecx

c0025923: 89 d3 mov ebx,edx

c0025925: 0f be f0 movsx esi,al

c0025928: 83 ec 08 sub esp,0x8

c002592b: 57 push edi

c002592c: 56 push esi

c002592d: ff d5 call ebp

c002592f: 83 c4 10 add esp,0x10

c0025932: 83 eb 01 sub ebx,0x1

c0025935: 75 f1 jne c0025928 <output\_dup+0x16>

c0025937: 83 c4 0c add esp,0xc

c002593a: 5b pop ebx

c002593b: 5e pop esi

c002593c: 5f pop edi

c002593d: 5d pop ebp

c002593e: c3 ret

c002593f <format\_integer>:

c002593f: 55 push ebp

c0025940: 57 push edi

c0025941: 56 push esi

c0025942: 53 push ebx

c0025943: 83 ec 7c sub esp,0x7c

c0025946: 89 c6 mov esi,eax

c0025948: 89 d7 mov edi,edx

c002594a: 8b 84 24 90 00 00 00 mov eax,DWORD PTR [esp+0x90]

c0025951: c7 44 24 20 00 00 00 mov DWORD PTR [esp+0x20],0x0

c0025958: 00

c0025959: 84 c9 test cl,cl

c002595b: 74 40 je c002599d <format\_integer+0x5e>

c002595d: 8b 94 24 98 00 00 00 mov edx,DWORD PTR [esp+0x98]

c0025964: 8b 12 mov edx,DWORD PTR [edx]

c0025966: f6 c2 02 test dl,0x2

c0025969: 74 10 je c002597b <format\_integer+0x3c>

c002596b: 3c 01 cmp al,0x1

c002596d: 19 c0 sbb eax,eax

c002596f: 83 e0 fe and eax,0xfffffffe

c0025972: 83 c0 2d add eax,0x2d

c0025975: 89 44 24 20 mov DWORD PTR [esp+0x20],eax

c0025979: eb 22 jmp c002599d <format\_integer+0x5e>

c002597b: f6 c2 04 test dl,0x4

c002597e: 74 10 je c0025990 <format\_integer+0x51>

c0025980: 3c 01 cmp al,0x1

c0025982: 19 c0 sbb eax,eax

c0025984: 83 e0 f3 and eax,0xfffffff3

c0025987: 83 c0 2d add eax,0x2d

c002598a: 89 44 24 20 mov DWORD PTR [esp+0x20],eax

c002598e: eb 0d jmp c002599d <format\_integer+0x5e>

c0025990: 3c 01 cmp al,0x1

c0025992: 19 c0 sbb eax,eax

c0025994: f7 d0 not eax

c0025996: 83 e0 2d and eax,0x2d

c0025999: 89 44 24 20 mov DWORD PTR [esp+0x20],eax

c002599d: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

c00259a4: 8b 00 mov eax,DWORD PTR [eax]

c00259a6: 89 44 24 28 mov DWORD PTR [esp+0x28],eax

c00259aa: 83 e0 08 and eax,0x8

c00259ad: 89 44 24 2c mov DWORD PTR [esp+0x2c],eax

c00259b1: 89 f2 mov edx,esi

c00259b3: 09 fa or edx,edi

c00259b5: 74 14 je c00259cb <format\_integer+0x8c>

c00259b7: 85 c0 test eax,eax

c00259b9: 74 10 je c00259cb <format\_integer+0x8c>

c00259bb: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

c00259c2: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c00259c5: 89 44 24 24 mov DWORD PTR [esp+0x24],eax

c00259c9: eb 08 jmp c00259d3 <format\_integer+0x94>

c00259cb: c7 44 24 24 00 00 00 mov DWORD PTR [esp+0x24],0x0

c00259d2: 00

c00259d3: 89 f8 mov eax,edi

c00259d5: 09 f0 or eax,esi

c00259d7: 0f 84 ad 00 00 00 je c0025a8a <format\_integer+0x14b>

c00259dd: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

c00259e4: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c00259e7: 89 44 24 18 mov DWORD PTR [esp+0x18],eax

c00259eb: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

c00259f2: 8b 00 mov eax,DWORD PTR [eax]

c00259f4: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c00259f8: 99 cdq

c00259f9: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c00259fd: bb 00 00 00 00 mov ebx,0x0

c0025a02: 8d 6c 24 30 lea ebp,[esp+0x30]

c0025a06: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0025a0a: c1 e8 05 shr eax,0x5

c0025a0d: 83 e0 01 and eax,0x1

c0025a10: 88 44 24 1f mov BYTE PTR [esp+0x1f],al

c0025a14: eb 2b jmp c0025a41 <format\_integer+0x102>

c0025a16: 80 7c 24 1f 00 cmp BYTE PTR [esp+0x1f],0x0

c0025a1b: 74 20 je c0025a3d <format\_integer+0xfe>

c0025a1d: 85 db test ebx,ebx

c0025a1f: 7e 1c jle c0025a3d <format\_integer+0xfe>

c0025a21: 8b 8c 24 94 00 00 00 mov ecx,DWORD PTR [esp+0x94]

c0025a28: 89 d8 mov eax,ebx

c0025a2a: 99 cdq

c0025a2b: f7 79 0c idiv DWORD PTR [ecx+0xc]

c0025a2e: 85 d2 test edx,edx

c0025a30: 75 0b jne c0025a3d <format\_integer+0xfe>

c0025a32: 8d 45 02 lea eax,[ebp+0x2]

c0025a35: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

c0025a39: c6 45 01 2c mov BYTE PTR [ebp+0x1],0x2c

c0025a3d: 8b 6c 24 14 mov ebp,DWORD PTR [esp+0x14]

c0025a41: 8d 45 01 lea eax,[ebp+0x1]

c0025a44: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

c0025a48: ff 74 24 0c push DWORD PTR [esp+0xc]

c0025a4c: ff 74 24 0c push DWORD PTR [esp+0xc]

c0025a50: 57 push edi

c0025a51: 56 push esi

c0025a52: e8 7d 19 00 00 call c00273d4 <\_\_umoddi3>

c0025a57: 83 c4 10 add esp,0x10

c0025a5a: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

c0025a5e: 0f b6 04 01 movzx eax,BYTE PTR [ecx+eax\*1]

c0025a62: 88 45 00 mov BYTE PTR [ebp+0x0],al

c0025a65: ff 74 24 0c push DWORD PTR [esp+0xc]

c0025a69: ff 74 24 0c push DWORD PTR [esp+0xc]

c0025a6d: 57 push edi

c0025a6e: 56 push esi

c0025a6f: e8 44 19 00 00 call c00273b8 <\_\_udivdi3>

c0025a74: 83 c4 10 add esp,0x10

c0025a77: 89 c6 mov esi,eax

c0025a79: 89 d7 mov edi,edx

c0025a7b: 83 c3 01 add ebx,0x1

c0025a7e: 89 d0 mov eax,edx

c0025a80: 09 f0 or eax,esi

c0025a82: 75 92 jne c0025a16 <format\_integer+0xd7>

c0025a84: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c0025a88: eb 04 jmp c0025a8e <format\_integer+0x14f>

c0025a8a: 8d 5c 24 30 lea ebx,[esp+0x30]

c0025a8e: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

c0025a95: 8b 50 08 mov edx,DWORD PTR [eax+0x8]

c0025a98: 85 d2 test edx,edx

c0025a9a: b8 01 00 00 00 mov eax,0x1

c0025a9f: 0f 48 d0 cmovs edx,eax

c0025aa2: 8d 7c 24 30 lea edi,[esp+0x30]

c0025aa6: 89 d8 mov eax,ebx

c0025aa8: 29 f8 sub eax,edi

c0025aaa: 39 c2 cmp edx,eax

c0025aac: 7e 1f jle c0025acd <format\_integer+0x18e>

c0025aae: 8d 44 24 6f lea eax,[esp+0x6f]

c0025ab2: 39 c3 cmp ebx,eax

c0025ab4: 73 17 jae c0025acd <format\_integer+0x18e>

c0025ab6: 89 f9 mov ecx,edi

c0025ab8: 89 c6 mov esi,eax

c0025aba: 83 c3 01 add ebx,0x1

c0025abd: c6 43 ff 30 mov BYTE PTR [ebx-0x1],0x30

c0025ac1: 89 d8 mov eax,ebx

c0025ac3: 29 c8 sub eax,ecx

c0025ac5: 39 c2 cmp edx,eax

c0025ac7: 7e 04 jle c0025acd <format\_integer+0x18e>

c0025ac9: 39 f3 cmp ebx,esi

c0025acb: 72 ed jb c0025aba <format\_integer+0x17b>

c0025acd: 83 7c 24 2c 00 cmp DWORD PTR [esp+0x2c],0x0

c0025ad2: 74 20 je c0025af4 <format\_integer+0x1b5>

c0025ad4: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

c0025adb: 83 38 08 cmp DWORD PTR [eax],0x8

c0025ade: 75 14 jne c0025af4 <format\_integer+0x1b5>

c0025ae0: 8d 44 24 30 lea eax,[esp+0x30]

c0025ae4: 39 c3 cmp ebx,eax

c0025ae6: 74 06 je c0025aee <format\_integer+0x1af>

c0025ae8: 80 7b ff 30 cmp BYTE PTR [ebx-0x1],0x30

c0025aec: 74 06 je c0025af4 <format\_integer+0x1b5>

c0025aee: c6 03 30 mov BYTE PTR [ebx],0x30

c0025af1: 8d 5b 01 lea ebx,[ebx+0x1]

c0025af4: 29 df sub edi,ebx

c0025af6: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

c0025afd: 03 78 04 add edi,DWORD PTR [eax+0x4]

c0025b00: 89 fe mov esi,edi

c0025b02: 83 7c 24 24 01 cmp DWORD PTR [esp+0x24],0x1

c0025b07: 19 c0 sbb eax,eax

c0025b09: f7 d0 not eax

c0025b0b: 83 e0 02 and eax,0x2

c0025b0e: 29 c6 sub esi,eax

c0025b10: 83 7c 24 20 00 cmp DWORD PTR [esp+0x20],0x0

c0025b15: 0f 95 c0 setne al

c0025b18: 0f b6 c0 movzx eax,al

c0025b1b: 29 c6 sub esi,eax

c0025b1d: b8 00 00 00 00 mov eax,0x0

c0025b22: 0f 48 f0 cmovs esi,eax

c0025b25: f6 44 24 28 11 test BYTE PTR [esp+0x28],0x11

c0025b2a: 75 20 jne c0025b4c <format\_integer+0x20d>

c0025b2c: 83 ec 0c sub esp,0xc

c0025b2f: ff b4 24 ac 00 00 00 push DWORD PTR [esp+0xac]

c0025b36: 8b 8c 24 ac 00 00 00 mov ecx,DWORD PTR [esp+0xac]

c0025b3d: 89 f2 mov edx,esi

c0025b3f: b8 20 00 00 00 mov eax,0x20

c0025b44: e8 c9 fd ff ff call c0025912 <output\_dup>

c0025b49: 83 c4 10 add esp,0x10

c0025b4c: 83 7c 24 20 00 cmp DWORD PTR [esp+0x20],0x0

c0025b51: 74 18 je c0025b6b <format\_integer+0x22c>

c0025b53: 83 ec 08 sub esp,0x8

c0025b56: ff b4 24 a8 00 00 00 push DWORD PTR [esp+0xa8]

c0025b5d: ff 74 24 2c push DWORD PTR [esp+0x2c]

c0025b61: ff 94 24 ac 00 00 00 call DWORD PTR [esp+0xac]

c0025b68: 83 c4 10 add esp,0x10

c0025b6b: 83 7c 24 24 00 cmp DWORD PTR [esp+0x24],0x0

c0025b70: 74 2d je c0025b9f <format\_integer+0x260>

c0025b72: 83 ec 08 sub esp,0x8

c0025b75: ff b4 24 a8 00 00 00 push DWORD PTR [esp+0xa8]

c0025b7c: 6a 30 push 0x30

c0025b7e: ff 94 24 ac 00 00 00 call DWORD PTR [esp+0xac]

c0025b85: 83 c4 08 add esp,0x8

c0025b88: ff b4 24 a8 00 00 00 push DWORD PTR [esp+0xa8]

c0025b8f: 0f be 44 24 30 movsx eax,BYTE PTR [esp+0x30]

c0025b94: 50 push eax

c0025b95: ff 94 24 ac 00 00 00 call DWORD PTR [esp+0xac]

c0025b9c: 83 c4 10 add esp,0x10

c0025b9f: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

c0025ba6: f6 00 10 test BYTE PTR [eax],0x10

c0025ba9: 74 20 je c0025bcb <format\_integer+0x28c>

c0025bab: 83 ec 0c sub esp,0xc

c0025bae: ff b4 24 ac 00 00 00 push DWORD PTR [esp+0xac]

c0025bb5: 8b 8c 24 ac 00 00 00 mov ecx,DWORD PTR [esp+0xac]

c0025bbc: 89 f2 mov edx,esi

c0025bbe: b8 30 00 00 00 mov eax,0x30

c0025bc3: e8 4a fd ff ff call c0025912 <output\_dup>

c0025bc8: 83 c4 10 add esp,0x10

c0025bcb: 8d 44 24 30 lea eax,[esp+0x30]

c0025bcf: 39 c3 cmp ebx,eax

c0025bd1: 76 2c jbe c0025bff <format\_integer+0x2c0>

c0025bd3: 89 c7 mov edi,eax

c0025bd5: 89 74 24 08 mov DWORD PTR [esp+0x8],esi

c0025bd9: 8b b4 24 9c 00 00 00 mov esi,DWORD PTR [esp+0x9c]

c0025be0: 8b ac 24 a0 00 00 00 mov ebp,DWORD PTR [esp+0xa0]

c0025be7: 83 eb 01 sub ebx,0x1

c0025bea: 83 ec 08 sub esp,0x8

c0025bed: 55 push ebp

c0025bee: 0f be 03 movsx eax,BYTE PTR [ebx]

c0025bf1: 50 push eax

c0025bf2: ff d6 call esi

c0025bf4: 83 c4 10 add esp,0x10

c0025bf7: 39 fb cmp ebx,edi

c0025bf9: 75 ec jne c0025be7 <format\_integer+0x2a8>

c0025bfb: 8b 74 24 08 mov esi,DWORD PTR [esp+0x8]

c0025bff: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

c0025c06: f6 00 01 test BYTE PTR [eax],0x1

c0025c09: 74 20 je c0025c2b <format\_integer+0x2ec>

c0025c0b: 83 ec 0c sub esp,0xc

c0025c0e: ff b4 24 ac 00 00 00 push DWORD PTR [esp+0xac]

c0025c15: 8b 8c 24 ac 00 00 00 mov ecx,DWORD PTR [esp+0xac]

c0025c1c: 89 f2 mov edx,esi

c0025c1e: b8 20 00 00 00 mov eax,0x20

c0025c23: e8 ea fc ff ff call c0025912 <output\_dup>

c0025c28: 83 c4 10 add esp,0x10

c0025c2b: 83 c4 7c add esp,0x7c

c0025c2e: 5b pop ebx

c0025c2f: 5e pop esi

c0025c30: 5f pop edi

c0025c31: 5d pop ebp

c0025c32: c3 ret

c0025c33 <format\_string>:

c0025c33: 55 push ebp

c0025c34: 57 push edi

c0025c35: 56 push esi

c0025c36: 53 push ebx

c0025c37: 83 ec 1c sub esp,0x1c

c0025c3a: 89 c5 mov ebp,eax

c0025c3c: 89 d6 mov esi,edx

c0025c3e: 89 4c 24 0c mov DWORD PTR [esp+0xc],ecx

c0025c42: 8b 7c 24 34 mov edi,DWORD PTR [esp+0x34]

c0025c46: 8b 51 04 mov edx,DWORD PTR [ecx+0x4]

c0025c49: 39 f2 cmp edx,esi

c0025c4b: 7e 6c jle c0025cb9 <format\_string+0x86>

c0025c4d: f6 01 01 test BYTE PTR [ecx],0x1

c0025c50: 75 61 jne c0025cb3 <format\_string+0x80>

c0025c52: 29 f2 sub edx,esi

c0025c54: 83 ec 0c sub esp,0xc

c0025c57: 57 push edi

c0025c58: 8b 4c 24 40 mov ecx,DWORD PTR [esp+0x40]

c0025c5c: b8 20 00 00 00 mov eax,0x20

c0025c61: e8 ac fc ff ff call c0025912 <output\_dup>

c0025c66: 83 c4 10 add esp,0x10

c0025c69: 85 f6 test esi,esi

c0025c6b: 7e 1d jle c0025c8a <format\_string+0x57>

c0025c6d: bb 00 00 00 00 mov ebx,0x0

c0025c72: 83 ec 08 sub esp,0x8

c0025c75: 57 push edi

c0025c76: 0f be 44 1d 00 movsx eax,BYTE PTR [ebp+ebx\*1+0x0]

c0025c7b: 50 push eax

c0025c7c: ff 54 24 40 call DWORD PTR [esp+0x40]

c0025c80: 83 c3 01 add ebx,0x1

c0025c83: 83 c4 10 add esp,0x10

c0025c86: 39 de cmp esi,ebx

c0025c88: 7f e8 jg c0025c72 <format\_string+0x3f>

c0025c8a: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c0025c8e: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c0025c91: 39 d6 cmp esi,edx

c0025c93: 7d 28 jge c0025cbd <format\_string+0x8a>

c0025c95: f6 00 01 test BYTE PTR [eax],0x1

c0025c98: 74 23 je c0025cbd <format\_string+0x8a>

c0025c9a: 29 f2 sub edx,esi

c0025c9c: 83 ec 0c sub esp,0xc

c0025c9f: 57 push edi

c0025ca0: 8b 4c 24 40 mov ecx,DWORD PTR [esp+0x40]

c0025ca4: b8 20 00 00 00 mov eax,0x20

c0025ca9: e8 64 fc ff ff call c0025912 <output\_dup>

c0025cae: 83 c4 10 add esp,0x10

c0025cb1: eb 0a jmp c0025cbd <format\_string+0x8a>

c0025cb3: 85 f6 test esi,esi

c0025cb5: 7f b6 jg c0025c6d <format\_string+0x3a>

c0025cb7: eb e1 jmp c0025c9a <format\_string+0x67>

c0025cb9: 85 f6 test esi,esi

c0025cbb: 7f b0 jg c0025c6d <format\_string+0x3a>

c0025cbd: 83 c4 1c add esp,0x1c

c0025cc0: 5b pop ebx

c0025cc1: 5e pop esi

c0025cc2: 5f pop edi

c0025cc3: 5d pop ebp

c0025cc4: c3 ret

c0025cc5 <printf>:

c0025cc5: 83 ec 0c sub esp,0xc

c0025cc8: 8d 44 24 14 lea eax,[esp+0x14]

c0025ccc: 83 ec 08 sub esp,0x8

c0025ccf: 50 push eax

c0025cd0: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0025cd4: e8 43 37 00 00 call c002941c <vprintf>

c0025cd9: 83 c4 1c add esp,0x1c

c0025cdc: c3 ret

c0025cdd <\_\_printf>:

c0025cdd: 83 ec 0c sub esp,0xc

c0025ce0: 8d 44 24 1c lea eax,[esp+0x1c]

c0025ce4: ff 74 24 18 push DWORD PTR [esp+0x18]

c0025ce8: ff 74 24 18 push DWORD PTR [esp+0x18]

c0025cec: 50 push eax

c0025ced: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0025cf1: e8 04 00 00 00 call c0025cfa <\_\_vprintf>

c0025cf6: 83 c4 1c add esp,0x1c

c0025cf9: c3 ret

c0025cfa <\_\_vprintf>:

c0025cfa: 55 push ebp

c0025cfb: 57 push edi

c0025cfc: 56 push esi

c0025cfd: 53 push ebx

c0025cfe: 83 ec 4c sub esp,0x4c

c0025d01: 8b 74 24 60 mov esi,DWORD PTR [esp+0x60]

c0025d05: 8b 6c 24 64 mov ebp,DWORD PTR [esp+0x64]

c0025d09: 0f b6 06 movzx eax,BYTE PTR [esi]

c0025d0c: 84 c0 test al,al

c0025d0e: 0f 84 49 06 00 00 je c002635d <\_\_vprintf+0x663>

c0025d14: 3c 25 cmp al,0x25

c0025d16: 74 19 je c0025d31 <\_\_vprintf+0x37>

c0025d18: 83 ec 08 sub esp,0x8

c0025d1b: ff 74 24 74 push DWORD PTR [esp+0x74]

c0025d1f: 0f be c0 movsx eax,al

c0025d22: 50 push eax

c0025d23: ff 54 24 78 call DWORD PTR [esp+0x78]

c0025d27: 83 c4 10 add esp,0x10

c0025d2a: 89 f3 mov ebx,esi

c0025d2c: e9 12 06 00 00 jmp c0026343 <\_\_vprintf+0x649>

c0025d31: 8d 5e 01 lea ebx,[esi+0x1]

c0025d34: 80 7e 01 25 cmp BYTE PTR [esi+0x1],0x25

c0025d38: 75 15 jne c0025d4f <\_\_vprintf+0x55>

c0025d3a: 83 ec 08 sub esp,0x8

c0025d3d: ff 74 24 74 push DWORD PTR [esp+0x74]

c0025d41: 6a 25 push 0x25

c0025d43: ff 54 24 78 call DWORD PTR [esp+0x78]

c0025d47: 83 c4 10 add esp,0x10

c0025d4a: e9 f4 05 00 00 jmp c0026343 <\_\_vprintf+0x649>

c0025d4f: c7 44 24 30 00 00 00 mov DWORD PTR [esp+0x30],0x0

c0025d56: 00

c0025d57: bf 00 00 00 00 mov edi,0x0

c0025d5c: be 00 00 00 00 mov esi,0x0

c0025d61: eb 07 jmp c0025d6a <\_\_vprintf+0x70>

c0025d63: 89 cb mov ebx,ecx

c0025d65: bf 01 00 00 00 mov edi,0x1

c0025d6a: 8d 4b 01 lea ecx,[ebx+0x1]

c0025d6d: 0f b6 41 ff movzx eax,BYTE PTR [ecx-0x1]

c0025d71: 8d 50 e0 lea edx,[eax-0x20]

c0025d74: 80 fa 10 cmp dl,0x10

c0025d77: 77 28 ja c0025da1 <\_\_vprintf+0xa7>

c0025d79: 0f b6 d2 movzx edx,dl

c0025d7c: ff 24 95 70 e0 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1f90]

c0025d83: 83 ce 01 or esi,0x1

c0025d86: eb db jmp c0025d63 <\_\_vprintf+0x69>

c0025d88: 83 ce 02 or esi,0x2

c0025d8b: eb d6 jmp c0025d63 <\_\_vprintf+0x69>

c0025d8d: 83 ce 04 or esi,0x4

c0025d90: eb d1 jmp c0025d63 <\_\_vprintf+0x69>

c0025d92: 83 ce 08 or esi,0x8

c0025d95: eb cc jmp c0025d63 <\_\_vprintf+0x69>

c0025d97: 83 ce 10 or esi,0x10

c0025d9a: eb c7 jmp c0025d63 <\_\_vprintf+0x69>

c0025d9c: 83 ce 20 or esi,0x20

c0025d9f: eb c2 jmp c0025d63 <\_\_vprintf+0x69>

c0025da1: 89 fa mov edx,edi

c0025da3: 84 d2 test dl,dl

c0025da5: 74 13 je c0025dba <\_\_vprintf+0xc0>

c0025da7: 89 74 24 30 mov DWORD PTR [esp+0x30],esi

c0025dab: f7 c6 01 00 00 00 test esi,0x1

c0025db1: 74 07 je c0025dba <\_\_vprintf+0xc0>

c0025db3: 83 e6 ef and esi,0xffffffef

c0025db6: 89 74 24 30 mov DWORD PTR [esp+0x30],esi

c0025dba: 8b 54 24 30 mov edx,DWORD PTR [esp+0x30]

c0025dbe: f6 c2 02 test dl,0x2

c0025dc1: 74 07 je c0025dca <\_\_vprintf+0xd0>

c0025dc3: 83 e2 fb and edx,0xfffffffb

c0025dc6: 89 54 24 30 mov DWORD PTR [esp+0x30],edx

c0025dca: c7 44 24 34 00 00 00 mov DWORD PTR [esp+0x34],0x0

c0025dd1: 00

c0025dd2: 3c 2a cmp al,0x2a

c0025dd4: 74 12 je c0025de8 <\_\_vprintf+0xee>

c0025dd6: 0f be d0 movsx edx,al

c0025dd9: 83 ea 30 sub edx,0x30

c0025ddc: b9 00 00 00 00 mov ecx,0x0

c0025de1: 83 fa 09 cmp edx,0x9

c0025de4: 76 10 jbe c0025df6 <\_\_vprintf+0xfc>

c0025de6: eb 40 jmp c0025e28 <\_\_vprintf+0x12e>

c0025de8: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

c0025deb: 89 44 24 34 mov DWORD PTR [esp+0x34],eax

c0025def: 8d 6d 04 lea ebp,[ebp+0x4]

c0025df2: 89 cb mov ebx,ecx

c0025df4: eb 1f jmp c0025e15 <\_\_vprintf+0x11b>

c0025df6: 8d 14 89 lea edx,[ecx+ecx\*4]

c0025df9: 0f be c0 movsx eax,al

c0025dfc: 8d 4c 50 d0 lea ecx,[eax+edx\*2-0x30]

c0025e00: 83 c3 01 add ebx,0x1

c0025e03: 0f b6 03 movzx eax,BYTE PTR [ebx]

c0025e06: 0f be d0 movsx edx,al

c0025e09: 83 ea 30 sub edx,0x30

c0025e0c: 83 fa 09 cmp edx,0x9

c0025e0f: 76 e5 jbe c0025df6 <\_\_vprintf+0xfc>

c0025e11: 89 4c 24 34 mov DWORD PTR [esp+0x34],ecx

c0025e15: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

c0025e19: 85 c0 test eax,eax

c0025e1b: 79 0b jns c0025e28 <\_\_vprintf+0x12e>

c0025e1d: f7 d8 neg eax

c0025e1f: 89 44 24 34 mov DWORD PTR [esp+0x34],eax

c0025e23: 83 4c 24 30 01 or DWORD PTR [esp+0x30],0x1

c0025e28: c7 44 24 38 ff ff ff mov DWORD PTR [esp+0x38],0xffffffff

c0025e2f: ff

c0025e30: 80 3b 2e cmp BYTE PTR [ebx],0x2e

c0025e33: 0f 85 1b 05 00 00 jne c0026354 <\_\_vprintf+0x65a>

c0025e39: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c0025e3d: 3c 2a cmp al,0x2a

c0025e3f: 75 0f jne c0025e50 <\_\_vprintf+0x156>

c0025e41: 83 c3 02 add ebx,0x2

c0025e44: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

c0025e47: 89 44 24 38 mov DWORD PTR [esp+0x38],eax

c0025e4b: 8d 6d 04 lea ebp,[ebp+0x4]

c0025e4e: eb 3a jmp c0025e8a <\_\_vprintf+0x190>

c0025e50: 83 c3 01 add ebx,0x1

c0025e53: c7 44 24 38 00 00 00 mov DWORD PTR [esp+0x38],0x0

c0025e5a: 00

c0025e5b: 0f be d0 movsx edx,al

c0025e5e: 83 ea 30 sub edx,0x30

c0025e61: 83 fa 09 cmp edx,0x9

c0025e64: 77 39 ja c0025e9f <\_\_vprintf+0x1a5>

c0025e66: b9 00 00 00 00 mov ecx,0x0

c0025e6b: 8d 14 89 lea edx,[ecx+ecx\*4]

c0025e6e: 0f be c0 movsx eax,al

c0025e71: 8d 4c 50 d0 lea ecx,[eax+edx\*2-0x30]

c0025e75: 83 c3 01 add ebx,0x1

c0025e78: 0f b6 03 movzx eax,BYTE PTR [ebx]

c0025e7b: 0f be d0 movsx edx,al

c0025e7e: 83 ea 30 sub edx,0x30

c0025e81: 83 fa 09 cmp edx,0x9

c0025e84: 76 e5 jbe c0025e6b <\_\_vprintf+0x171>

c0025e86: 89 4c 24 38 mov DWORD PTR [esp+0x38],ecx

c0025e8a: 8b 4c 24 38 mov ecx,DWORD PTR [esp+0x38]

c0025e8e: 85 c9 test ecx,ecx

c0025e90: 79 12 jns c0025ea4 <\_\_vprintf+0x1aa>

c0025e92: c7 44 24 38 ff ff ff mov DWORD PTR [esp+0x38],0xffffffff

c0025e99: ff

c0025e9a: e9 b5 04 00 00 jmp c0026354 <\_\_vprintf+0x65a>

c0025e9f: b9 00 00 00 00 mov ecx,0x0

c0025ea4: 83 64 24 30 ef and DWORD PTR [esp+0x30],0xffffffef

c0025ea9: c7 44 24 3c 03 00 00 mov DWORD PTR [esp+0x3c],0x3

c0025eb0: 00

c0025eb1: 8d 73 01 lea esi,[ebx+0x1]

c0025eb4: 0f b6 03 movzx eax,BYTE PTR [ebx]

c0025eb7: 8d 50 98 lea edx,[eax-0x68]

c0025eba: 80 fa 12 cmp dl,0x12

c0025ebd: 0f 87 06 01 00 00 ja c0025fc9 <\_\_vprintf+0x2cf>

c0025ec3: 0f b6 d2 movzx edx,dl

c0025ec6: ff 24 95 b4 e0 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1f4c]

c0025ecd: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c0025ed1: 3c 68 cmp al,0x68

c0025ed3: 75 25 jne c0025efa <\_\_vprintf+0x200>

c0025ed5: 8d 73 02 lea esi,[ebx+0x2]

c0025ed8: c7 44 24 3c 01 00 00 mov DWORD PTR [esp+0x3c],0x1

c0025edf: 00

c0025ee0: 0f b6 43 02 movzx eax,BYTE PTR [ebx+0x2]

c0025ee4: 8d 50 bb lea edx,[eax-0x45]

c0025ee7: 80 fa 33 cmp dl,0x33

c0025eea: 0f 87 38 04 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025ef0: 0f b6 d2 movzx edx,dl

c0025ef3: ff 24 95 00 e1 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1f00]

c0025efa: c7 44 24 3c 02 00 00 mov DWORD PTR [esp+0x3c],0x2

c0025f01: 00

c0025f02: 8d 50 bb lea edx,[eax-0x45]

c0025f05: 80 fa 33 cmp dl,0x33

c0025f08: 0f 87 1a 04 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025f0e: 0f b6 d2 movzx edx,dl

c0025f11: ff 24 95 d0 e1 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1e30]

c0025f18: c7 44 24 3c 04 00 00 mov DWORD PTR [esp+0x3c],0x4

c0025f1f: 00

c0025f20: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c0025f24: 8d 50 bb lea edx,[eax-0x45]

c0025f27: 80 fa 33 cmp dl,0x33

c0025f2a: 0f 87 f8 03 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025f30: 0f b6 d2 movzx edx,dl

c0025f33: ff 24 95 a0 e2 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1d60]

c0025f3a: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c0025f3e: 3c 6c cmp al,0x6c

c0025f40: 75 25 jne c0025f67 <\_\_vprintf+0x26d>

c0025f42: 8d 73 02 lea esi,[ebx+0x2]

c0025f45: c7 44 24 3c 06 00 00 mov DWORD PTR [esp+0x3c],0x6

c0025f4c: 00

c0025f4d: 0f b6 43 02 movzx eax,BYTE PTR [ebx+0x2]

c0025f51: 8d 50 bb lea edx,[eax-0x45]

c0025f54: 80 fa 33 cmp dl,0x33

c0025f57: 0f 87 cb 03 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025f5d: 0f b6 d2 movzx edx,dl

c0025f60: ff 24 95 70 e3 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1c90]

c0025f67: c7 44 24 3c 05 00 00 mov DWORD PTR [esp+0x3c],0x5

c0025f6e: 00

c0025f6f: 8d 50 bb lea edx,[eax-0x45]

c0025f72: 80 fa 33 cmp dl,0x33

c0025f75: 0f 87 ad 03 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025f7b: 0f b6 d2 movzx edx,dl

c0025f7e: ff 24 95 40 e4 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1bc0]

c0025f85: c7 44 24 3c 07 00 00 mov DWORD PTR [esp+0x3c],0x7

c0025f8c: 00

c0025f8d: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c0025f91: 8d 50 bb lea edx,[eax-0x45]

c0025f94: 80 fa 33 cmp dl,0x33

c0025f97: 0f 87 8b 03 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025f9d: 0f b6 d2 movzx edx,dl

c0025fa0: ff 24 95 10 e5 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1af0]

c0025fa7: c7 44 24 3c 08 00 00 mov DWORD PTR [esp+0x3c],0x8

c0025fae: 00

c0025faf: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c0025fb3: 8d 50 bb lea edx,[eax-0x45]

c0025fb6: 80 fa 33 cmp dl,0x33

c0025fb9: 0f 87 69 03 00 00 ja c0026328 <\_\_vprintf+0x62e>

c0025fbf: 0f b6 d2 movzx edx,dl

c0025fc2: ff 24 95 e0 e5 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1a20]

c0025fc9: 8d 50 bb lea edx,[eax-0x45]

c0025fcc: 80 fa 33 cmp dl,0x33

c0025fcf: 0f 87 51 03 00 00 ja c0026326 <\_\_vprintf+0x62c>

c0025fd5: 0f b6 d2 movzx edx,dl

c0025fd8: ff 24 95 b0 e6 02 c0 jmp DWORD PTR [edx\*4-0x3ffd1950]

c0025fdf: 89 de mov esi,ebx

c0025fe1: 83 7c 24 3c 08 cmp DWORD PTR [esp+0x3c],0x8

c0025fe6: 0f 87 c4 00 00 00 ja c00260b0 <\_\_vprintf+0x3b6>

c0025fec: 8b 44 24 3c mov eax,DWORD PTR [esp+0x3c]

c0025ff0: ff 24 85 80 e7 02 c0 jmp DWORD PTR [eax\*4-0x3ffd1880]

c0025ff7: 0f be 4d 00 movsx ecx,BYTE PTR [ebp+0x0]

c0025ffb: 89 c8 mov eax,ecx

c0025ffd: 99 cdq

c0025ffe: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

c0026002: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0026006: 8d 6d 04 lea ebp,[ebp+0x4]

c0026009: e9 bb 00 00 00 jmp c00260c9 <\_\_vprintf+0x3cf>

c002600e: 0f bf 4d 00 movsx ecx,WORD PTR [ebp+0x0]

c0026012: 89 c8 mov eax,ecx

c0026014: 99 cdq

c0026015: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

c0026019: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c002601d: 8d 6d 04 lea ebp,[ebp+0x4]

c0026020: e9 a4 00 00 00 jmp c00260c9 <\_\_vprintf+0x3cf>

c0026025: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c0026028: 89 c8 mov eax,ecx

c002602a: 99 cdq

c002602b: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

c002602f: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0026033: 8d 6d 04 lea ebp,[ebp+0x4]

c0026036: e9 8e 00 00 00 jmp c00260c9 <\_\_vprintf+0x3cf>

c002603b: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

c002603e: 8b 55 04 mov edx,DWORD PTR [ebp+0x4]

c0026041: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c0026045: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0026049: 8d 6d 08 lea ebp,[ebp+0x8]

c002604c: eb 7b jmp c00260c9 <\_\_vprintf+0x3cf>

c002604e: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c0026051: 89 c8 mov eax,ecx

c0026053: 99 cdq

c0026054: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

c0026058: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c002605c: 8d 6d 04 lea ebp,[ebp+0x4]

c002605f: eb 68 jmp c00260c9 <\_\_vprintf+0x3cf>

c0026061: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

c0026064: 8b 55 04 mov edx,DWORD PTR [ebp+0x4]

c0026067: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002606b: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c002606f: 8d 6d 08 lea ebp,[ebp+0x8]

c0026072: eb 55 jmp c00260c9 <\_\_vprintf+0x3cf>

c0026074: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c0026077: 89 c8 mov eax,ecx

c0026079: 99 cdq

c002607a: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

c002607e: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0026082: 8d 6d 04 lea ebp,[ebp+0x4]

c0026085: eb 42 jmp c00260c9 <\_\_vprintf+0x3cf>

c0026087: 8d 45 04 lea eax,[ebp+0x4]

c002608a: 8b 7d 00 mov edi,DWORD PTR [ebp+0x0]

c002608d: bd 00 00 00 00 mov ebp,0x0

c0026092: 89 7c 24 08 mov DWORD PTR [esp+0x8],edi

c0026096: 89 6c 24 0c mov DWORD PTR [esp+0xc],ebp

c002609a: 89 c5 mov ebp,eax

c002609c: 81 ff ff ff ff 7f cmp edi,0x7fffffff

c00260a2: 76 25 jbe c00260c9 <\_\_vprintf+0x3cf>

c00260a4: 83 44 24 08 00 add DWORD PTR [esp+0x8],0x0

c00260a9: 83 54 24 0c ff adc DWORD PTR [esp+0xc],0xffffffff

c00260ae: eb 19 jmp c00260c9 <\_\_vprintf+0x3cf>

c00260b0: 68 64 f5 02 c0 push 0xc002f564

c00260b5: 68 a4 e7 02 c0 push 0xc002e7a4

c00260ba: 68 dc 00 00 00 push 0xdc

c00260bf: 68 9d 07 03 c0 push 0xc003079d

c00260c4: e8 74 18 00 00 call c002793d <debug\_panic>

c00260c9: 8b 4c 24 08 mov ecx,DWORD PTR [esp+0x8]

c00260cd: 8b 5c 24 0c mov ebx,DWORD PTR [esp+0xc]

c00260d1: 89 da mov edx,ebx

c00260d3: c1 fa 1f sar edx,0x1f

c00260d6: 89 d7 mov edi,edx

c00260d8: 31 cf xor edi,ecx

c00260da: 89 7c 24 10 mov DWORD PTR [esp+0x10],edi

c00260de: 89 d7 mov edi,edx

c00260e0: 33 7c 24 0c xor edi,DWORD PTR [esp+0xc]

c00260e4: 89 7c 24 14 mov DWORD PTR [esp+0x14],edi

c00260e8: 8b 4c 24 10 mov ecx,DWORD PTR [esp+0x10]

c00260ec: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c00260f0: 29 d1 sub ecx,edx

c00260f2: 19 d3 sbb ebx,edx

c00260f4: 89 c8 mov eax,ecx

c00260f6: 89 da mov edx,ebx

c00260f8: 83 ec 0c sub esp,0xc

c00260fb: ff 74 24 78 push DWORD PTR [esp+0x78]

c00260ff: ff 74 24 78 push DWORD PTR [esp+0x78]

c0026103: 8d 7c 24 44 lea edi,[esp+0x44]

c0026107: 57 push edi

c0026108: 68 e0 e7 02 c0 push 0xc002e7e0

c002610d: 8b 4c 24 28 mov ecx,DWORD PTR [esp+0x28]

c0026111: c1 e9 1f shr ecx,0x1f

c0026114: 51 push ecx

c0026115: b9 01 00 00 00 mov ecx,0x1

c002611a: e8 20 f8 ff ff call c002593f <format\_integer>

c002611f: 83 c4 20 add esp,0x20

c0026122: 89 f3 mov ebx,esi

c0026124: e9 1a 02 00 00 jmp c0026343 <\_\_vprintf+0x649>

c0026129: 8b 75 00 mov esi,DWORD PTR [ebp+0x0]

c002612c: bf 00 00 00 00 mov edi,0x0

c0026131: 89 74 24 18 mov DWORD PTR [esp+0x18],esi

c0026135: 89 7c 24 1c mov DWORD PTR [esp+0x1c],edi

c0026139: 8d 6d 04 lea ebp,[ebp+0x4]

c002613c: e9 9d 00 00 00 jmp c00261de <\_\_vprintf+0x4e4>

c0026141: 0f b6 55 00 movzx edx,BYTE PTR [ebp+0x0]

c0026145: 89 54 24 18 mov DWORD PTR [esp+0x18],edx

c0026149: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

c0026150: 00

c0026151: 89 f3 mov ebx,esi

c0026153: 8d 6d 04 lea ebp,[ebp+0x4]

c0026156: e9 83 00 00 00 jmp c00261de <\_\_vprintf+0x4e4>

c002615b: 0f b7 55 00 movzx edx,WORD PTR [ebp+0x0]

c002615f: 89 54 24 18 mov DWORD PTR [esp+0x18],edx

c0026163: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

c002616a: 00

c002616b: 89 f3 mov ebx,esi

c002616d: 8d 6d 04 lea ebp,[ebp+0x4]

c0026170: eb 6c jmp c00261de <\_\_vprintf+0x4e4>

c0026172: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c0026175: 8b 5d 04 mov ebx,DWORD PTR [ebp+0x4]

c0026178: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

c002617c: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

c0026180: 89 f3 mov ebx,esi

c0026182: 8d 6d 08 lea ebp,[ebp+0x8]

c0026185: eb 57 jmp c00261de <\_\_vprintf+0x4e4>

c0026187: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c002618a: bb 00 00 00 00 mov ebx,0x0

c002618f: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

c0026193: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

c0026197: 89 f3 mov ebx,esi

c0026199: 8d 6d 04 lea ebp,[ebp+0x4]

c002619c: eb 40 jmp c00261de <\_\_vprintf+0x4e4>

c002619e: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c00261a1: 8b 5d 04 mov ebx,DWORD PTR [ebp+0x4]

c00261a4: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

c00261a8: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

c00261ac: 89 f3 mov ebx,esi

c00261ae: 8d 6d 08 lea ebp,[ebp+0x8]

c00261b1: eb 2b jmp c00261de <\_\_vprintf+0x4e4>

c00261b3: 8b 7d 00 mov edi,DWORD PTR [ebp+0x0]

c00261b6: 89 7c 24 18 mov DWORD PTR [esp+0x18],edi

c00261ba: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

c00261c1: 00

c00261c2: 89 f3 mov ebx,esi

c00261c4: 8d 6d 04 lea ebp,[ebp+0x4]

c00261c7: eb 15 jmp c00261de <\_\_vprintf+0x4e4>

c00261c9: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

c00261cc: bb 00 00 00 00 mov ebx,0x0

c00261d1: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

c00261d5: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

c00261d9: 89 f3 mov ebx,esi

c00261db: 8d 6d 04 lea ebp,[ebp+0x4]

c00261de: 3c 6f cmp al,0x6f

c00261e0: 74 3b je c002621d <\_\_vprintf+0x523>

c00261e2: 3c 6f cmp al,0x6f

c00261e4: 7f 06 jg c00261ec <\_\_vprintf+0x4f2>

c00261e6: 3c 58 cmp al,0x58

c00261e8: 74 13 je c00261fd <\_\_vprintf+0x503>

c00261ea: eb 18 jmp c0026204 <\_\_vprintf+0x50a>

c00261ec: 3c 75 cmp al,0x75

c00261ee: 74 06 je c00261f6 <\_\_vprintf+0x4fc>

c00261f0: 3c 78 cmp al,0x78

c00261f2: 74 30 je c0026224 <\_\_vprintf+0x52a>

c00261f4: eb 0e jmp c0026204 <\_\_vprintf+0x50a>

c00261f6: b8 e0 e7 02 c0 mov eax,0xc002e7e0

c00261fb: eb 2c jmp c0026229 <\_\_vprintf+0x52f>

c00261fd: b8 b0 e7 02 c0 mov eax,0xc002e7b0

c0026202: eb 25 jmp c0026229 <\_\_vprintf+0x52f>

c0026204: 68 64 f5 02 c0 push 0xc002f564

c0026209: 68 a4 e7 02 c0 push 0xc002e7a4

c002620e: 68 14 01 00 00 push 0x114

c0026213: 68 9d 07 03 c0 push 0xc003079d

c0026218: e8 20 17 00 00 call c002793d <debug\_panic>

c002621d: b8 d0 e7 02 c0 mov eax,0xc002e7d0

c0026222: eb 05 jmp c0026229 <\_\_vprintf+0x52f>

c0026224: b8 c0 e7 02 c0 mov eax,0xc002e7c0

c0026229: 83 ec 0c sub esp,0xc

c002622c: ff 74 24 78 push DWORD PTR [esp+0x78]

c0026230: ff 74 24 78 push DWORD PTR [esp+0x78]

c0026234: 8d 7c 24 44 lea edi,[esp+0x44]

c0026238: 57 push edi

c0026239: 50 push eax

c002623a: 6a 00 push 0x0

c002623c: b9 00 00 00 00 mov ecx,0x0

c0026241: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

c0026245: 8b 54 24 3c mov edx,DWORD PTR [esp+0x3c]

c0026249: e8 f1 f6 ff ff call c002593f <format\_integer>

c002624e: 83 c4 20 add esp,0x20

c0026251: e9 ed 00 00 00 jmp c0026343 <\_\_vprintf+0x649>

c0026256: 89 de mov esi,ebx

c0026258: 8d 7d 04 lea edi,[ebp+0x4]

c002625b: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

c002625e: 88 44 24 2f mov BYTE PTR [esp+0x2f],al

c0026262: 83 ec 08 sub esp,0x8

c0026265: ff 74 24 74 push DWORD PTR [esp+0x74]

c0026269: ff 74 24 74 push DWORD PTR [esp+0x74]

c002626d: 8d 4c 24 40 lea ecx,[esp+0x40]

c0026271: ba 01 00 00 00 mov edx,0x1

c0026276: 8d 44 24 3f lea eax,[esp+0x3f]

c002627a: e8 b4 f9 ff ff call c0025c33 <format\_string>

c002627f: 83 c4 10 add esp,0x10

c0026282: 89 f3 mov ebx,esi

c0026284: 89 fd mov ebp,edi

c0026286: e9 b8 00 00 00 jmp c0026343 <\_\_vprintf+0x649>

c002628b: 89 de mov esi,ebx

c002628d: 8d 7d 04 lea edi,[ebp+0x4]

c0026290: 8b 5d 00 mov ebx,DWORD PTR [ebp+0x0]

c0026293: 85 db test ebx,ebx

c0026295: b8 96 07 03 c0 mov eax,0xc0030796

c002629a: 0f 44 d8 cmove ebx,eax

c002629d: 83 ec 08 sub esp,0x8

c00262a0: 51 push ecx

c00262a1: 53 push ebx

c00262a2: e8 7e 0d 00 00 call c0027025 <strnlen>

c00262a7: 83 c4 08 add esp,0x8

c00262aa: ff 74 24 74 push DWORD PTR [esp+0x74]

c00262ae: ff 74 24 74 push DWORD PTR [esp+0x74]

c00262b2: 8d 4c 24 40 lea ecx,[esp+0x40]

c00262b6: 89 c2 mov edx,eax

c00262b8: 89 d8 mov eax,ebx

c00262ba: e8 74 f9 ff ff call c0025c33 <format\_string>

c00262bf: 83 c4 10 add esp,0x10

c00262c2: 89 f3 mov ebx,esi

c00262c4: 89 fd mov ebp,edi

c00262c6: eb 7b jmp c0026343 <\_\_vprintf+0x649>

c00262c8: 89 de mov esi,ebx

c00262ca: 8d 7d 04 lea edi,[ebp+0x4]

c00262cd: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

c00262d0: c7 44 24 30 08 00 00 mov DWORD PTR [esp+0x30],0x8

c00262d7: 00

c00262d8: ba 00 00 00 00 mov edx,0x0

c00262dd: 83 ec 0c sub esp,0xc

c00262e0: ff 74 24 78 push DWORD PTR [esp+0x78]

c00262e4: ff 74 24 78 push DWORD PTR [esp+0x78]

c00262e8: 8d 4c 24 44 lea ecx,[esp+0x44]

c00262ec: 51 push ecx

c00262ed: 68 c0 e7 02 c0 push 0xc002e7c0

c00262f2: 6a 00 push 0x0

c00262f4: b9 00 00 00 00 mov ecx,0x0

c00262f9: e8 41 f6 ff ff call c002593f <format\_integer>

c00262fe: 83 c4 20 add esp,0x20

c0026301: 89 f3 mov ebx,esi

c0026303: 89 fd mov ebp,edi

c0026305: eb 3c jmp c0026343 <\_\_vprintf+0x649>

c0026307: 89 de mov esi,ebx

c0026309: 0f be c0 movsx eax,al

c002630c: 50 push eax

c002630d: ff 74 24 70 push DWORD PTR [esp+0x70]

c0026311: ff 74 24 70 push DWORD PTR [esp+0x70]

c0026315: 68 af 07 03 c0 push 0xc00307af

c002631a: e8 be f9 ff ff call c0025cdd <\_\_printf>

c002631f: 83 c4 10 add esp,0x10

c0026322: 89 f3 mov ebx,esi

c0026324: eb 1d jmp c0026343 <\_\_vprintf+0x649>

c0026326: 89 de mov esi,ebx

c0026328: 0f be c0 movsx eax,al

c002632b: 50 push eax

c002632c: ff 74 24 70 push DWORD PTR [esp+0x70]

c0026330: ff 74 24 70 push DWORD PTR [esp+0x70]

c0026334: 68 c5 07 03 c0 push 0xc00307c5

c0026339: e8 9f f9 ff ff call c0025cdd <\_\_printf>

c002633e: 83 c4 10 add esp,0x10

c0026341: 89 f3 mov ebx,esi

c0026343: 8d 73 01 lea esi,[ebx+0x1]

c0026346: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

c002634a: 84 c0 test al,al

c002634c: 0f 85 c2 f9 ff ff jne c0025d14 <\_\_vprintf+0x1a>

c0026352: eb 09 jmp c002635d <\_\_vprintf+0x663>

c0026354: 8b 4c 24 38 mov ecx,DWORD PTR [esp+0x38]

c0026358: e9 4c fb ff ff jmp c0025ea9 <\_\_vprintf+0x1af>

c002635d: 83 c4 4c add esp,0x4c

c0026360: 5b pop ebx

c0026361: 5e pop esi

c0026362: 5f pop edi

c0026363: 5d pop ebp

c0026364: c3 ret

c0026365 <vsnprintf>:

c0026365: 53 push ebx

c0026366: 83 ec 18 sub esp,0x18

c0026369: 8b 44 24 24 mov eax,DWORD PTR [esp+0x24]

c002636d: 8b 54 24 28 mov edx,DWORD PTR [esp+0x28]

c0026371: 8b 4c 24 2c mov ecx,DWORD PTR [esp+0x2c]

c0026375: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c0026379: 89 5c 24 04 mov DWORD PTR [esp+0x4],ebx

c002637d: c7 44 24 08 00 00 00 mov DWORD PTR [esp+0x8],0x0

c0026384: 00

c0026385: 85 c0 test eax,eax

c0026387: 74 24 je c00263ad <vsnprintf+0x48>

c0026389: 83 e8 01 sub eax,0x1

c002638c: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c0026390: 8d 44 24 04 lea eax,[esp+0x4]

c0026394: 50 push eax

c0026395: 68 f0 58 02 c0 push 0xc00258f0

c002639a: 51 push ecx

c002639b: 52 push edx

c002639c: e8 59 f9 ff ff call c0025cfa <\_\_vprintf>

c00263a1: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c00263a5: c6 00 00 mov BYTE PTR [eax],0x0

c00263a8: 83 c4 10 add esp,0x10

c00263ab: eb 1c jmp c00263c9 <vsnprintf+0x64>

c00263ad: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

c00263b4: 00

c00263b5: 8d 44 24 04 lea eax,[esp+0x4]

c00263b9: 50 push eax

c00263ba: 68 f0 58 02 c0 push 0xc00258f0

c00263bf: 51 push ecx

c00263c0: 52 push edx

c00263c1: e8 34 f9 ff ff call c0025cfa <\_\_vprintf>

c00263c6: 83 c4 10 add esp,0x10

c00263c9: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c00263cd: 83 c4 18 add esp,0x18

c00263d0: 5b pop ebx

c00263d1: c3 ret

c00263d2 <snprintf>:

c00263d2: 83 ec 0c sub esp,0xc

c00263d5: 8d 44 24 1c lea eax,[esp+0x1c]

c00263d9: 50 push eax

c00263da: ff 74 24 1c push DWORD PTR [esp+0x1c]

c00263de: ff 74 24 1c push DWORD PTR [esp+0x1c]

c00263e2: ff 74 24 1c push DWORD PTR [esp+0x1c]

c00263e6: e8 7a ff ff ff call c0026365 <vsnprintf>

c00263eb: 83 c4 1c add esp,0x1c

c00263ee: c3 ret

c00263ef <hex\_dump>:

c00263ef: 55 push ebp

c00263f0: 57 push edi

c00263f1: 56 push esi

c00263f2: 53 push ebx

c00263f3: 83 ec 1c sub esp,0x1c

c00263f6: 0f b6 44 24 3c movzx eax,BYTE PTR [esp+0x3c]

c00263fb: 88 44 24 0f mov BYTE PTR [esp+0xf],al

c00263ff: 83 7c 24 38 00 cmp DWORD PTR [esp+0x38],0x0

c0026404: 0f 84 cb 01 00 00 je c00265d5 <hex\_dump+0x1e6>

c002640a: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

c002640e: 83 e6 0f and esi,0xf

c0026411: b8 10 00 00 00 mov eax,0x10

c0026416: 29 f0 sub eax,esi

c0026418: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002641c: 3b 44 24 38 cmp eax,DWORD PTR [esp+0x38]

c0026420: 0f 86 6e 01 00 00 jbe c0026594 <hex\_dump+0x1a5>

c0026426: 89 f7 mov edi,esi

c0026428: 03 7c 24 38 add edi,DWORD PTR [esp+0x38]

c002642c: 83 ec 04 sub esp,0x4

c002642f: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

c0026433: 83 e0 f0 and eax,0xfffffff0

c0026436: ba 00 00 00 00 mov edx,0x0

c002643b: 52 push edx

c002643c: 50 push eax

c002643d: 68 dc 07 03 c0 push 0xc00307dc

c0026442: e8 7e f8 ff ff call c0025cc5 <printf>

c0026447: 83 c4 10 add esp,0x10

c002644a: 85 f6 test esi,esi

c002644c: 74 26 je c0026474 <hex\_dump+0x85>

c002644e: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

c0026452: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c0026456: bb 00 00 00 00 mov ebx,0x0

c002645b: 83 ec 0c sub esp,0xc

c002645e: 68 e4 07 03 c0 push 0xc00307e4

c0026463: e8 5d f8 ff ff call c0025cc5 <printf>

c0026468: 83 c3 01 add ebx,0x1

c002646b: 83 c4 10 add esp,0x10

c002646e: 39 de cmp esi,ebx

c0026470: 77 e9 ja c002645b <hex\_dump+0x6c>

c0026472: eb 0a jmp c002647e <hex\_dump+0x8f>

c0026474: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

c0026478: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002647c: 89 f3 mov ebx,esi

c002647e: 39 df cmp edi,ebx

c0026480: 76 34 jbe c00264b6 <hex\_dump+0xc7>

c0026482: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c0026486: 29 f5 sub ebp,esi

c0026488: 83 fb 07 cmp ebx,0x7

c002648b: b8 20 00 00 00 mov eax,0x20

c0026490: b9 2d 00 00 00 mov ecx,0x2d

c0026495: 0f 44 c1 cmove eax,ecx

c0026498: 83 ec 04 sub esp,0x4

c002649b: 50 push eax

c002649c: 0f b6 44 1d 00 movzx eax,BYTE PTR [ebp+ebx\*1+0x0]

c00264a1: 50 push eax

c00264a2: 68 e8 07 03 c0 push 0xc00307e8

c00264a7: e8 19 f8 ff ff call c0025cc5 <printf>

c00264ac: 83 c3 01 add ebx,0x1

c00264af: 83 c4 10 add esp,0x10

c00264b2: 39 fb cmp ebx,edi

c00264b4: 72 d2 jb c0026488 <hex\_dump+0x99>

c00264b6: 80 7c 24 0f 00 cmp BYTE PTR [esp+0xf],0x0

c00264bb: 0f 84 ae 00 00 00 je c002656f <hex\_dump+0x180>

c00264c1: 83 fb 0f cmp ebx,0xf

c00264c4: 77 18 ja c00264de <hex\_dump+0xef>

c00264c6: 83 ec 0c sub esp,0xc

c00264c9: 68 e4 07 03 c0 push 0xc00307e4

c00264ce: e8 f2 f7 ff ff call c0025cc5 <printf>

c00264d3: 83 c3 01 add ebx,0x1

c00264d6: 83 c4 10 add esp,0x10

c00264d9: 83 fb 10 cmp ebx,0x10

c00264dc: 75 e8 jne c00264c6 <hex\_dump+0xd7>

c00264de: 83 ec 0c sub esp,0xc

c00264e1: 6a 7c push 0x7c

c00264e3: e8 d9 2f 00 00 call c00294c1 <putchar>

c00264e8: 83 c4 10 add esp,0x10

c00264eb: 85 f6 test esi,esi

c00264ed: 0f 84 d3 00 00 00 je c00265c6 <hex\_dump+0x1d7>

c00264f3: bb 00 00 00 00 mov ebx,0x0

c00264f8: 83 ec 0c sub esp,0xc

c00264fb: 6a 20 push 0x20

c00264fd: e8 bf 2f 00 00 call c00294c1 <putchar>

c0026502: 83 c3 01 add ebx,0x1

c0026505: 83 c4 10 add esp,0x10

c0026508: 39 de cmp esi,ebx

c002650a: 75 ec jne c00264f8 <hex\_dump+0x109>

c002650c: 39 fe cmp esi,edi

c002650e: 73 36 jae c0026546 <hex\_dump+0x157>

c0026510: 89 f3 mov ebx,esi

c0026512: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c0026516: 29 f5 sub ebp,esi

c0026518: be 2e 00 00 00 mov esi,0x2e

c002651d: 0f b6 44 1d 00 movzx eax,BYTE PTR [ebp+ebx\*1+0x0]

c0026522: 0f b6 d0 movzx edx,al

c0026525: 83 ea 20 sub edx,0x20

c0026528: 0f b6 c0 movzx eax,al

c002652b: 83 fa 5e cmp edx,0x5e

c002652e: 0f 47 c6 cmova eax,esi

c0026531: 83 ec 0c sub esp,0xc

c0026534: 50 push eax

c0026535: e8 87 2f 00 00 call c00294c1 <putchar>

c002653a: 83 c3 01 add ebx,0x1

c002653d: 83 c4 10 add esp,0x10

c0026540: 39 fb cmp ebx,edi

c0026542: 72 d9 jb c002651d <hex\_dump+0x12e>

c0026544: eb 02 jmp c0026548 <hex\_dump+0x159>

c0026546: 89 f3 mov ebx,esi

c0026548: 83 fb 0f cmp ebx,0xf

c002654b: 77 15 ja c0026562 <hex\_dump+0x173>

c002654d: 83 ec 0c sub esp,0xc

c0026550: 6a 20 push 0x20

c0026552: e8 6a 2f 00 00 call c00294c1 <putchar>

c0026557: 83 c3 01 add ebx,0x1

c002655a: 83 c4 10 add esp,0x10

c002655d: 83 fb 0f cmp ebx,0xf

c0026560: 76 eb jbe c002654d <hex\_dump+0x15e>

c0026562: 83 ec 0c sub esp,0xc

c0026565: 6a 7c push 0x7c

c0026567: e8 55 2f 00 00 call c00294c1 <putchar>

c002656c: 83 c4 10 add esp,0x10

c002656f: 83 ec 0c sub esp,0xc

c0026572: 6a 0a push 0xa

c0026574: e8 48 2f 00 00 call c00294c1 <putchar>

c0026579: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c002657d: 01 44 24 40 add DWORD PTR [esp+0x40],eax

c0026581: 01 44 24 44 add DWORD PTR [esp+0x44],eax

c0026585: 83 c4 10 add esp,0x10

c0026588: 29 44 24 38 sub DWORD PTR [esp+0x38],eax

c002658c: 0f 85 78 fe ff ff jne c002640a <hex\_dump+0x1b>

c0026592: eb 41 jmp c00265d5 <hex\_dump+0x1e6>

c0026594: 83 ec 04 sub esp,0x4

c0026597: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

c002659b: 83 e0 f0 and eax,0xfffffff0

c002659e: ba 00 00 00 00 mov edx,0x0

c00265a3: 52 push edx

c00265a4: 50 push eax

c00265a5: 68 dc 07 03 c0 push 0xc00307dc

c00265aa: e8 16 f7 ff ff call c0025cc5 <printf>

c00265af: 83 c4 10 add esp,0x10

c00265b2: bf 10 00 00 00 mov edi,0x10

c00265b7: 89 f3 mov ebx,esi

c00265b9: 85 f6 test esi,esi

c00265bb: 0f 84 c1 fe ff ff je c0026482 <hex\_dump+0x93>

c00265c1: e9 90 fe ff ff jmp c0026456 <hex\_dump+0x67>

c00265c6: 89 f3 mov ebx,esi

c00265c8: 85 ff test edi,edi

c00265ca: 0f 85 42 ff ff ff jne c0026512 <hex\_dump+0x123>

c00265d0: e9 78 ff ff ff jmp c002654d <hex\_dump+0x15e>

c00265d5: 83 c4 1c add esp,0x1c

c00265d8: 5b pop ebx

c00265d9: 5e pop esi

c00265da: 5f pop edi

c00265db: 5d pop ebp

c00265dc: c3 ret

c00265dd <print\_human\_readable\_size>:

c00265dd: 57 push edi

c00265de: 56 push esi

c00265df: 83 ec 04 sub esp,0x4

c00265e2: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c00265e6: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c00265ea: 89 f0 mov eax,esi

c00265ec: 83 f0 01 xor eax,0x1

c00265ef: 09 f8 or eax,edi

c00265f1: 74 22 je c0026615 <print\_human\_readable\_si

ze+0x38>

c00265f3: 83 ff 00 cmp edi,0x0

c00265f6: 77 0d ja c0026605 <print\_human\_readable\_si

ze+0x28>

c00265f8: b9 08 9b 03 c0 mov ecx,0xc0039b08

c00265fd: 81 fe ff 03 00 00 cmp esi,0x3ff

c0026603: 76 46 jbe c002664b <print\_human\_readable\_si

ze+0x6e>

c0026605: b9 08 9b 03 c0 mov ecx,0xc0039b08

c002660a: 83 3d 0c 9b 03 c0 00 cmp DWORD PTR ds:0xc0039b0c,0x0

c0026611: 75 14 jne c0026627 <print\_human\_readable\_si

ze+0x4a>

c0026613: eb 36 jmp c002664b <print\_human\_readable\_si

ze+0x6e>

c0026615: 83 ec 0c sub esp,0xc

c0026618: 68 f1 07 03 c0 push 0xc00307f1

c002661d: e8 a3 f6 ff ff call c0025cc5 <printf>

c0026622: 83 c4 10 add esp,0x10

c0026625: eb 35 jmp c002665c <print\_human\_readable\_si

ze+0x7f>

c0026627: 89 f0 mov eax,esi

c0026629: 89 fa mov edx,edi

c002662b: 0f ac f8 0a shrd eax,edi,0xa

c002662f: c1 ea 0a shr edx,0xa

c0026632: 89 c6 mov esi,eax

c0026634: 89 d7 mov edi,edx

c0026636: 83 c1 04 add ecx,0x4

c0026639: 83 fa 00 cmp edx,0x0

c002663c: 77 07 ja c0026645 <print\_human\_readable\_si

ze+0x68>

c002663e: 3d ff 03 00 00 cmp eax,0x3ff

c0026643: 76 06 jbe c002664b <print\_human\_readable\_si

ze+0x6e>

c0026645: 83 79 04 00 cmp DWORD PTR [ecx+0x4],0x0

c0026649: 75 dc jne c0026627 <print\_human\_readable\_si

ze+0x4a>

c002664b: ff 31 push DWORD PTR [ecx]

c002664d: 57 push edi

c002664e: 56 push esi

c002664f: 68 f8 07 03 c0 push 0xc00307f8

c0026654: e8 6c f6 ff ff call c0025cc5 <printf>

c0026659: 83 c4 10 add esp,0x10

c002665c: 83 c4 04 add esp,0x4

c002665f: 5e pop esi

c0026660: 5f pop edi

c0026661: c3 ret

c0026662 <compare\_thunk>:

c0026662: 83 ec 14 sub esp,0x14

c0026665: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0026669: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002666d: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0026671: ff 10 call DWORD PTR [eax]

c0026673: 83 c4 1c add esp,0x1c

c0026676: c3 ret

c0026677 <do\_swap>:

c0026677: 55 push ebp

c0026678: 57 push edi

c0026679: 56 push esi

c002667a: 53 push ebx

c002667b: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c002667f: 83 ea 01 sub edx,0x1

c0026682: 0f af d6 imul edx,esi

c0026685: 83 e9 01 sub ecx,0x1

c0026688: 0f af ce imul ecx,esi

c002668b: 85 f6 test esi,esi

c002668d: 74 21 je c00266b0 <do\_swap+0x39>

c002668f: 89 d5 mov ebp,edx

c0026691: 8d 1c 10 lea ebx,[eax+edx\*1]

c0026694: 8d 3c 16 lea edi,[esi+edx\*1]

c0026697: 01 c7 add edi,eax

c0026699: 0f b6 03 movzx eax,BYTE PTR [ebx]

c002669c: 89 de mov esi,ebx

c002669e: 29 ee sub esi,ebp

c00266a0: 0f b6 14 0e movzx edx,BYTE PTR [esi+ecx\*1]

c00266a4: 88 13 mov BYTE PTR [ebx],dl

c00266a6: 88 04 0e mov BYTE PTR [esi+ecx\*1],al

c00266a9: 83 c3 01 add ebx,0x1

c00266ac: 39 fb cmp ebx,edi

c00266ae: 75 e9 jne c0026699 <do\_swap+0x22>

c00266b0: 5b pop ebx

c00266b1: 5e pop esi

c00266b2: 5f pop edi

c00266b3: 5d pop ebp

c00266b4: c3 ret

c00266b5 <heapify>:

c00266b5: 55 push ebp

c00266b6: 57 push edi

c00266b7: 56 push esi

c00266b8: 53 push ebx

c00266b9: 83 ec 1c sub esp,0x1c

c00266bc: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c00266c0: 89 d7 mov edi,edx

c00266c2: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

c00266c6: 8b 6c 24 30 mov ebp,DWORD PTR [esp+0x30]

c00266ca: 8d 1c 3f lea ebx,[edi+edi\*1]

c00266cd: 8d 73 01 lea esi,[ebx+0x1]

c00266d0: 3b 5c 24 08 cmp ebx,DWORD PTR [esp+0x8]

c00266d4: 77 79 ja c002674f <heapify+0x9a>

c00266d6: 83 ec 04 sub esp,0x4

c00266d9: ff 74 24 3c push DWORD PTR [esp+0x3c]

c00266dd: 8d 47 ff lea eax,[edi-0x1]

c00266e0: 0f af c5 imul eax,ebp

c00266e3: 8b 4c 24 14 mov ecx,DWORD PTR [esp+0x14]

c00266e7: 01 c8 add eax,ecx

c00266e9: 50 push eax

c00266ea: 8d 43 ff lea eax,[ebx-0x1]

c00266ed: 0f af c5 imul eax,ebp

c00266f0: 01 c8 add eax,ecx

c00266f2: 50 push eax

c00266f3: ff 54 24 44 call DWORD PTR [esp+0x44]

c00266f7: 83 c4 10 add esp,0x10

c00266fa: 85 c0 test eax,eax

c00266fc: 7e 51 jle c002674f <heapify+0x9a>

c00266fe: 3b 74 24 08 cmp esi,DWORD PTR [esp+0x8]

c0026702: 77 2a ja c002672e <heapify+0x79>

c0026704: 83 ec 04 sub esp,0x4

c0026707: ff 74 24 3c push DWORD PTR [esp+0x3c]

c002670b: 8d 43 ff lea eax,[ebx-0x1]

c002670e: 0f af c5 imul eax,ebp

c0026711: 8b 4c 24 14 mov ecx,DWORD PTR [esp+0x14]

c0026715: 01 c8 add eax,ecx

c0026717: 50 push eax

c0026718: 89 d8 mov eax,ebx

c002671a: 0f af c5 imul eax,ebp

c002671d: 01 c8 add eax,ecx

c002671f: 50 push eax

c0026720: ff 54 24 44 call DWORD PTR [esp+0x44]

c0026724: 83 c4 10 add esp,0x10

c0026727: 85 c0 test eax,eax

c0026729: 0f 4e f3 cmovle esi,ebx

c002672c: eb 02 jmp c0026730 <heapify+0x7b>

c002672e: 89 de mov esi,ebx

c0026730: 39 f7 cmp edi,esi

c0026732: 74 46 je c002677a <heapify+0xc5>

c0026734: 83 ec 0c sub esp,0xc

c0026737: 55 push ebp

c0026738: 89 f1 mov ecx,esi

c002673a: 89 fa mov edx,edi

c002673c: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c0026740: e8 32 ff ff ff call c0026677 <do\_swap>

c0026745: 83 c4 10 add esp,0x10

c0026748: 89 f7 mov edi,esi

c002674a: e9 7b ff ff ff jmp c00266ca <heapify+0x15>

c002674f: 3b 74 24 08 cmp esi,DWORD PTR [esp+0x8]

c0026753: 77 25 ja c002677a <heapify+0xc5>

c0026755: 83 ec 04 sub esp,0x4

c0026758: ff 74 24 3c push DWORD PTR [esp+0x3c]

c002675c: 8d 47 ff lea eax,[edi-0x1]

c002675f: 0f af c5 imul eax,ebp

c0026762: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0026766: 01 d0 add eax,edx

c0026768: 50 push eax

c0026769: 0f af dd imul ebx,ebp

c002676c: 01 d3 add ebx,edx

c002676e: 53 push ebx

c002676f: ff 54 24 44 call DWORD PTR [esp+0x44]

c0026773: 83 c4 10 add esp,0x10

c0026776: 85 c0 test eax,eax

c0026778: 7f b6 jg c0026730 <heapify+0x7b>

c002677a: 83 c4 1c add esp,0x1c

c002677d: 5b pop ebx

c002677e: 5e pop esi

c002677f: 5f pop edi

c0026780: 5d pop ebp

c0026781: c3 ret

c0026782 <atoi>:

c0026782: 56 push esi

c0026783: 53 push ebx

c0026784: 83 ec 04 sub esp,0x4

c0026787: 8b 4c 24 10 mov ecx,DWORD PTR [esp+0x10]

c002678b: 85 c9 test ecx,ecx

c002678d: 75 23 jne c00267b2 <atoi+0x30>

c002678f: 83 ec 0c sub esp,0xc

c0026792: 68 3e 09 03 c0 push 0xc003093e

c0026797: 68 83 ed 02 c0 push 0xc002ed83

c002679c: 68 f8 e7 02 c0 push 0xc002e7f8

c00267a1: 6a 0f push 0xf

c00267a3: 68 48 08 03 c0 push 0xc0030848

c00267a8: e8 90 11 00 00 call c002793d <debug\_panic>

c00267ad: 83 c1 01 add ecx,0x1

c00267b0: eb 05 jmp c00267b7 <atoi+0x35>

c00267b2: bb 0d 00 40 00 mov ebx,0x40000d

c00267b7: 0f b6 11 movzx edx,BYTE PTR [ecx]

c00267ba: 8d 42 f6 lea eax,[edx-0xa]

c00267bd: 3c 16 cmp al,0x16

c00267bf: 77 05 ja c00267c6 <atoi+0x44>

c00267c1: 0f a3 c3 bt ebx,eax

c00267c4: 72 e7 jb c00267ad <atoi+0x2b>

c00267c6: 89 d0 mov eax,edx

c00267c8: 83 e0 fd and eax,0xfffffffd

c00267cb: 3c 09 cmp al,0x9

c00267cd: 74 de je c00267ad <atoi+0x2b>

c00267cf: 80 fa 2b cmp dl,0x2b

c00267d2: 75 05 jne c00267d9 <atoi+0x57>

c00267d4: 83 c1 01 add ecx,0x1

c00267d7: eb 55 jmp c002682e <atoi+0xac>

c00267d9: 80 fa 2d cmp dl,0x2d

c00267dc: 75 50 jne c002682e <atoi+0xac>

c00267de: 0f b6 51 01 movzx edx,BYTE PTR [ecx+0x1]

c00267e2: 0f be da movsx ebx,dl

c00267e5: 83 eb 30 sub ebx,0x30

c00267e8: b8 00 00 00 00 mov eax,0x0

c00267ed: 83 fb 09 cmp ebx,0x9

c00267f0: 77 51 ja c0026843 <atoi+0xc1>

c00267f2: 83 c1 01 add ecx,0x1

c00267f5: be 01 00 00 00 mov esi,0x1

c00267fa: eb 05 jmp c0026801 <atoi+0x7f>

c00267fc: be 00 00 00 00 mov esi,0x0

c0026801: b8 00 00 00 00 mov eax,0x0

c0026806: 8d 04 80 lea eax,[eax+eax\*4]

c0026809: 01 c0 add eax,eax

c002680b: 0f be d2 movsx edx,dl

c002680e: 83 ea 30 sub edx,0x30

c0026811: 29 d0 sub eax,edx

c0026813: 83 c1 01 add ecx,0x1

c0026816: 0f b6 11 movzx edx,BYTE PTR [ecx]

c0026819: 0f be da movsx ebx,dl

c002681c: 83 eb 30 sub ebx,0x30

c002681f: 83 fb 09 cmp ebx,0x9

c0026822: 76 e2 jbe c0026806 <atoi+0x84>

c0026824: 89 f1 mov ecx,esi

c0026826: 84 c9 test cl,cl

c0026828: 75 19 jne c0026843 <atoi+0xc1>

c002682a: f7 d8 neg eax

c002682c: eb 15 jmp c0026843 <atoi+0xc1>

c002682e: 0f b6 11 movzx edx,BYTE PTR [ecx]

c0026831: 0f be c2 movsx eax,dl

c0026834: 83 e8 30 sub eax,0x30

c0026837: 83 f8 09 cmp eax,0x9

c002683a: 76 c0 jbe c00267fc <atoi+0x7a>

c002683c: b8 00 00 00 00 mov eax,0x0

c0026841: eb e7 jmp c002682a <atoi+0xa8>

c0026843: 83 c4 04 add esp,0x4

c0026846: 5b pop ebx

c0026847: 5e pop esi

c0026848: c3 ret

c0026849 <sort>:

c0026849: 55 push ebp

c002684a: 57 push edi

c002684b: 56 push esi

c002684c: 53 push ebx

c002684d: 83 ec 0c sub esp,0xc

c0026850: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c0026854: 8b 5c 24 24 mov ebx,DWORD PTR [esp+0x24]

c0026858: 8b 6c 24 28 mov ebp,DWORD PTR [esp+0x28]

c002685c: 85 ff test edi,edi

c002685e: 75 25 jne c0026885 <sort+0x3c>

c0026860: 85 db test ebx,ebx

c0026862: 74 21 je c0026885 <sort+0x3c>

c0026864: 83 ec 0c sub esp,0xc

c0026867: 68 5b 08 03 c0 push 0xc003085b

c002686c: 68 83 ed 02 c0 push 0xc002ed83

c0026871: 68 f0 e7 02 c0 push 0xc002e7f0

c0026876: 68 8a 00 00 00 push 0x8a

c002687b: 68 48 08 03 c0 push 0xc0030848

c0026880: e8 b8 10 00 00 call c002793d <debug\_panic>

c0026885: 83 7c 24 2c 00 cmp DWORD PTR [esp+0x2c],0x0

c002688a: 75 21 jne c00268ad <sort+0x64>

c002688c: 83 ec 0c sub esp,0xc

c002688f: 68 75 08 03 c0 push 0xc0030875

c0026894: 68 83 ed 02 c0 push 0xc002ed83

c0026899: 68 f0 e7 02 c0 push 0xc002e7f0

c002689e: 68 8b 00 00 00 push 0x8b

c00268a3: 68 48 08 03 c0 push 0xc0030848

c00268a8: e8 90 10 00 00 call c002793d <debug\_panic>

c00268ad: 85 ed test ebp,ebp

c00268af: 75 21 jne c00268d2 <sort+0x89>

c00268b1: 83 ec 0c sub esp,0xc

c00268b4: 68 85 08 03 c0 push 0xc0030885

c00268b9: 68 83 ed 02 c0 push 0xc002ed83

c00268be: 68 f0 e7 02 c0 push 0xc002e7f0

c00268c3: 68 8c 00 00 00 push 0x8c

c00268c8: 68 48 08 03 c0 push 0xc0030848

c00268cd: e8 6b 10 00 00 call c002793d <debug\_panic>

c00268d2: 89 de mov esi,ebx

c00268d4: d1 ee shr esi,1

c00268d6: 74 33 je c002690b <sort+0xc2>

c00268d8: 89 5c 24 24 mov DWORD PTR [esp+0x24],ebx

c00268dc: 89 fb mov ebx,edi

c00268de: 8b 7c 24 24 mov edi,DWORD PTR [esp+0x24]

c00268e2: 83 ec 04 sub esp,0x4

c00268e5: ff 74 24 34 push DWORD PTR [esp+0x34]

c00268e9: ff 74 24 34 push DWORD PTR [esp+0x34]

c00268ed: 55 push ebp

c00268ee: 89 f9 mov ecx,edi

c00268f0: 89 f2 mov edx,esi

c00268f2: 89 d8 mov eax,ebx

c00268f4: e8 bc fd ff ff call c00266b5 <heapify>

c00268f9: 83 c4 10 add esp,0x10

c00268fc: 83 ee 01 sub esi,0x1

c00268ff: 75 e1 jne c00268e2 <sort+0x99>

c0026901: 89 7c 24 24 mov DWORD PTR [esp+0x24],edi

c0026905: 89 df mov edi,ebx

c0026907: 8b 5c 24 24 mov ebx,DWORD PTR [esp+0x24]

c002690b: 83 fb 01 cmp ebx,0x1

c002690e: 76 3a jbe c002694a <sort+0x101>

c0026910: 89 fe mov esi,edi

c0026912: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

c0026916: 83 ec 0c sub esp,0xc

c0026919: 55 push ebp

c002691a: 89 d9 mov ecx,ebx

c002691c: ba 01 00 00 00 mov edx,0x1

c0026921: 89 f0 mov eax,esi

c0026923: e8 4f fd ff ff call c0026677 <do\_swap>

c0026928: 83 eb 01 sub ebx,0x1

c002692b: 83 c4 0c add esp,0xc

c002692e: 57 push edi

c002692f: ff 74 24 34 push DWORD PTR [esp+0x34]

c0026933: 55 push ebp

c0026934: 89 d9 mov ecx,ebx

c0026936: ba 01 00 00 00 mov edx,0x1

c002693b: 89 f0 mov eax,esi

c002693d: e8 73 fd ff ff call c00266b5 <heapify>

c0026942: 83 c4 10 add esp,0x10

c0026945: 83 fb 01 cmp ebx,0x1

c0026948: 75 cc jne c0026916 <sort+0xcd>

c002694a: 83 c4 0c add esp,0xc

c002694d: 5b pop ebx

c002694e: 5e pop esi

c002694f: 5f pop edi

c0026950: 5d pop ebp

c0026951: c3 ret

c0026952 <qsort>:

c0026952: 83 ec 18 sub esp,0x18

c0026955: 8d 44 24 28 lea eax,[esp+0x28]

c0026959: 50 push eax

c002695a: 68 62 66 02 c0 push 0xc0026662

c002695f: ff 74 24 2c push DWORD PTR [esp+0x2c]

c0026963: ff 74 24 2c push DWORD PTR [esp+0x2c]

c0026967: ff 74 24 2c push DWORD PTR [esp+0x2c]

c002696b: e8 d9 fe ff ff call c0026849 <sort>

c0026970: 83 c4 2c add esp,0x2c

c0026973: c3 ret

c0026974 <binary\_search>:

c0026974: 55 push ebp

c0026975: 57 push edi

c0026976: 56 push esi

c0026977: 53 push ebx

c0026978: 83 ec 0c sub esp,0xc

c002697b: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

c002697f: 8b 7c 24 2c mov edi,DWORD PTR [esp+0x2c]

c0026983: 89 fd mov ebp,edi

c0026985: 0f af 6c 24 28 imul ebp,DWORD PTR [esp+0x28]

c002698a: 01 f5 add ebp,esi

c002698c: 39 ee cmp esi,ebp

c002698e: 73 40 jae c00269d0 <binary\_search+0x5c>

c0026990: 89 e8 mov eax,ebp

c0026992: 29 f0 sub eax,esi

c0026994: ba 00 00 00 00 mov edx,0x0

c0026999: f7 f7 div edi

c002699b: d1 e8 shr eax,1

c002699d: 0f af c7 imul eax,edi

c00269a0: 8d 1c 06 lea ebx,[esi+eax\*1]

c00269a3: 83 ec 04 sub esp,0x4

c00269a6: ff 74 24 38 push DWORD PTR [esp+0x38]

c00269aa: 53 push ebx

c00269ab: ff 74 24 2c push DWORD PTR [esp+0x2c]

c00269af: ff 54 24 40 call DWORD PTR [esp+0x40]

c00269b3: 83 c4 10 add esp,0x10

c00269b6: 85 c0 test eax,eax

c00269b8: 78 09 js c00269c3 <binary\_search+0x4f>

c00269ba: 85 c0 test eax,eax

c00269bc: 7e 19 jle c00269d7 <binary\_search+0x63>

c00269be: 8d 34 3b lea esi,[ebx+edi\*1]

c00269c1: eb 02 jmp c00269c5 <binary\_search+0x51>

c00269c3: 89 dd mov ebp,ebx

c00269c5: 39 f5 cmp ebp,esi

c00269c7: 77 c7 ja c0026990 <binary\_search+0x1c>

c00269c9: b8 00 00 00 00 mov eax,0x0

c00269ce: eb 09 jmp c00269d9 <binary\_search+0x65>

c00269d0: b8 00 00 00 00 mov eax,0x0

c00269d5: eb 02 jmp c00269d9 <binary\_search+0x65>

c00269d7: 89 d8 mov eax,ebx

c00269d9: 83 c4 0c add esp,0xc

c00269dc: 5b pop ebx

c00269dd: 5e pop esi

c00269de: 5f pop edi

c00269df: 5d pop ebp

c00269e0: c3 ret

c00269e1 <bsearch>:

c00269e1: 83 ec 14 sub esp,0x14

c00269e4: 8d 44 24 28 lea eax,[esp+0x28]

c00269e8: 50 push eax

c00269e9: 68 62 66 02 c0 push 0xc0026662

c00269ee: ff 74 24 2c push DWORD PTR [esp+0x2c]

c00269f2: ff 74 24 2c push DWORD PTR [esp+0x2c]

c00269f6: ff 74 24 2c push DWORD PTR [esp+0x2c]

c00269fa: ff 74 24 2c push DWORD PTR [esp+0x2c]

c00269fe: e8 71 ff ff ff call c0026974 <binary\_search>

c0026a03: 83 c4 2c add esp,0x2c

c0026a06: c3 ret

c0026a07 <memcpy>:

c0026a07: 56 push esi

c0026a08: 53 push ebx

c0026a09: 83 ec 04 sub esp,0x4

c0026a0c: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0026a10: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0026a14: 8b 5c 24 18 mov ebx,DWORD PTR [esp+0x18]

c0026a18: 85 db test ebx,ebx

c0026a1a: 0f 94 c2 sete dl

c0026a1d: 85 c0 test eax,eax

c0026a1f: 75 22 jne c0026a43 <memcpy+0x3c>

c0026a21: 84 d2 test dl,dl

c0026a23: 75 1e jne c0026a43 <memcpy+0x3c>

c0026a25: 83 ec 0c sub esp,0xc

c0026a28: 68 8e 08 03 c0 push 0xc003088e

c0026a2d: 68 83 ed 02 c0 push 0xc002ed83

c0026a32: 68 54 e8 02 c0 push 0xc002e854

c0026a37: 6a 0c push 0xc

c0026a39: 68 a7 08 03 c0 push 0xc00308a7

c0026a3e: e8 fa 0e 00 00 call c002793d <debug\_panic>

c0026a43: 85 f6 test esi,esi

c0026a45: 75 04 jne c0026a4b <memcpy+0x44>

c0026a47: 84 d2 test dl,dl

c0026a49: 74 0b je c0026a56 <memcpy+0x4f>

c0026a4b: ba 00 00 00 00 mov edx,0x0

c0026a50: 85 db test ebx,ebx

c0026a52: 75 20 jne c0026a74 <memcpy+0x6d>

c0026a54: eb 2c jmp c0026a82 <memcpy+0x7b>

c0026a56: 83 ec 0c sub esp,0xc

c0026a59: 68 ba 08 03 c0 push 0xc00308ba

c0026a5e: 68 83 ed 02 c0 push 0xc002ed83

c0026a63: 68 54 e8 02 c0 push 0xc002e854

c0026a68: 6a 0d push 0xd

c0026a6a: 68 a7 08 03 c0 push 0xc00308a7

c0026a6f: e8 c9 0e 00 00 call c002793d <debug\_panic>

c0026a74: 0f b6 0c 16 movzx ecx,BYTE PTR [esi+edx\*1]

c0026a78: 88 0c 10 mov BYTE PTR [eax+edx\*1],cl

c0026a7b: 83 c2 01 add edx,0x1

c0026a7e: 39 da cmp edx,ebx

c0026a80: 75 f2 jne c0026a74 <memcpy+0x6d>

c0026a82: 83 c4 04 add esp,0x4

c0026a85: 5b pop ebx

c0026a86: 5e pop esi

c0026a87: c3 ret

c0026a88 <memmove>:

c0026a88: 57 push edi

c0026a89: 56 push esi

c0026a8a: 53 push ebx

c0026a8b: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0026a8f: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c0026a93: 8b 7c 24 18 mov edi,DWORD PTR [esp+0x18]

c0026a97: 85 ff test edi,edi

c0026a99: 0f 94 c2 sete dl

c0026a9c: 85 c0 test eax,eax

c0026a9e: 75 22 jne c0026ac2 <memmove+0x3a>

c0026aa0: 84 d2 test dl,dl

c0026aa2: 75 1e jne c0026ac2 <memmove+0x3a>

c0026aa4: 83 ec 0c sub esp,0xc

c0026aa7: 68 8e 08 03 c0 push 0xc003088e

c0026aac: 68 83 ed 02 c0 push 0xc002ed83

c0026ab1: 68 4c e8 02 c0 push 0xc002e84c

c0026ab6: 6a 1d push 0x1d

c0026ab8: 68 a7 08 03 c0 push 0xc00308a7

c0026abd: e8 7b 0e 00 00 call c002793d <debug\_panic>

c0026ac2: 85 db test ebx,ebx

c0026ac4: 75 22 jne c0026ae8 <memmove+0x60>

c0026ac6: 84 d2 test dl,dl

c0026ac8: 75 1e jne c0026ae8 <memmove+0x60>

c0026aca: 83 ec 0c sub esp,0xc

c0026acd: 68 ba 08 03 c0 push 0xc00308ba

c0026ad2: 68 83 ed 02 c0 push 0xc002ed83

c0026ad7: 68 4c e8 02 c0 push 0xc002e84c

c0026adc: 6a 1e push 0x1e

c0026ade: 68 a7 08 03 c0 push 0xc00308a7

c0026ae3: e8 55 0e 00 00 call c002793d <debug\_panic>

c0026ae8: 39 d8 cmp eax,ebx

c0026aea: 73 1b jae c0026b07 <memmove+0x7f>

c0026aec: 85 ff test edi,edi

c0026aee: 74 38 je c0026b28 <memmove+0xa0>

c0026af0: ba 00 00 00 00 mov edx,0x0

c0026af5: 0f b6 0c 13 movzx ecx,BYTE PTR [ebx+edx\*1]

c0026af9: 88 0c 10 mov BYTE PTR [eax+edx\*1],cl

c0026afc: 83 c2 01 add edx,0x1

c0026aff: 39 fa cmp edx,edi

c0026b01: 75 f2 jne c0026af5 <memmove+0x6d>

c0026b03: 01 f8 add eax,edi

c0026b05: eb 21 jmp c0026b28 <memmove+0xa0>

c0026b07: 8d 34 38 lea esi,[eax+edi\*1]

c0026b0a: 8d 57 ff lea edx,[edi-0x1]

c0026b0d: 85 ff test edi,edi

c0026b0f: 74 15 je c0026b26 <memmove+0x9e>

c0026b11: 89 f0 mov eax,esi

c0026b13: 29 f8 sub eax,edi

c0026b15: 0f b6 0c 13 movzx ecx,BYTE PTR [ebx+edx\*1]

c0026b19: 88 0c 10 mov BYTE PTR [eax+edx\*1],cl

c0026b1c: 83 ea 01 sub edx,0x1

c0026b1f: 83 fa ff cmp edx,0xffffffff

c0026b22: 75 ed jne c0026b11 <memmove+0x89>

c0026b24: eb 02 jmp c0026b28 <memmove+0xa0>

c0026b26: 89 f0 mov eax,esi

c0026b28: 5b pop ebx

c0026b29: 5e pop esi

c0026b2a: 5f pop edi

c0026b2b: c3 ret

c0026b2c <memcmp>:

c0026b2c: 57 push edi

c0026b2d: 56 push esi

c0026b2e: 53 push ebx

c0026b2f: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0026b33: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0026b37: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0026b3b: 85 c0 test eax,eax

c0026b3d: 0f 94 c2 sete dl

c0026b40: 85 db test ebx,ebx

c0026b42: 75 22 jne c0026b66 <memcmp+0x3a>

c0026b44: 84 d2 test dl,dl

c0026b46: 75 1e jne c0026b66 <memcmp+0x3a>

c0026b48: 83 ec 0c sub esp,0xc

c0026b4b: 68 d3 08 03 c0 push 0xc00308d3

c0026b50: 68 83 ed 02 c0 push 0xc002ed83

c0026b55: 68 44 e8 02 c0 push 0xc002e844

c0026b5a: 6a 3a push 0x3a

c0026b5c: 68 a7 08 03 c0 push 0xc00308a7

c0026b61: e8 d7 0d 00 00 call c002793d <debug\_panic>

c0026b66: 85 f6 test esi,esi

c0026b68: 75 04 jne c0026b6e <memcmp+0x42>

c0026b6a: 84 d2 test dl,dl

c0026b6c: 74 18 je c0026b86 <memcmp+0x5a>

c0026b6e: 8d 78 ff lea edi,[eax-0x1]

c0026b71: 85 c0 test eax,eax

c0026b73: 74 56 je c0026bcb <memcmp+0x9f>

c0026b75: 0f b6 13 movzx edx,BYTE PTR [ebx]

c0026b78: 0f b6 0e movzx ecx,BYTE PTR [esi]

c0026b7b: 38 ca cmp dl,cl

c0026b7d: 75 35 jne c0026bb4 <memcmp+0x88>

c0026b7f: b8 00 00 00 00 mov eax,0x0

c0026b84: eb 3a jmp c0026bc0 <memcmp+0x94>

c0026b86: 83 ec 0c sub esp,0xc

c0026b89: 68 ea 08 03 c0 push 0xc00308ea

c0026b8e: 68 83 ed 02 c0 push 0xc002ed83

c0026b93: 68 44 e8 02 c0 push 0xc002e844

c0026b98: 6a 3b push 0x3b

c0026b9a: 68 a7 08 03 c0 push 0xc00308a7

c0026b9f: e8 99 0d 00 00 call c002793d <debug\_panic>

c0026ba4: 0f b6 54 03 01 movzx edx,BYTE PTR [ebx+eax\*1+0x1]

c0026ba9: 83 c0 01 add eax,0x1

c0026bac: 0f b6 0c 06 movzx ecx,BYTE PTR [esi+eax\*1]

c0026bb0: 38 ca cmp dl,cl

c0026bb2: 74 0c je c0026bc0 <memcmp+0x94>

c0026bb4: 38 d1 cmp cl,dl

c0026bb6: 19 c0 sbb eax,eax

c0026bb8: 83 e0 02 and eax,0x2

c0026bbb: 83 e8 01 sub eax,0x1

c0026bbe: eb 10 jmp c0026bd0 <memcmp+0xa4>

c0026bc0: 39 f8 cmp eax,edi

c0026bc2: 75 e0 jne c0026ba4 <memcmp+0x78>

c0026bc4: b8 00 00 00 00 mov eax,0x0

c0026bc9: eb 05 jmp c0026bd0 <memcmp+0xa4>

c0026bcb: b8 00 00 00 00 mov eax,0x0

c0026bd0: 5b pop ebx

c0026bd1: 5e pop esi

c0026bd2: 5f pop edi

c0026bd3: c3 ret

c0026bd4 <strcmp>:

c0026bd4: 83 ec 0c sub esp,0xc

c0026bd7: 8b 4c 24 10 mov ecx,DWORD PTR [esp+0x10]

c0026bdb: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0026bdf: 85 c9 test ecx,ecx

c0026be1: 75 1e jne c0026c01 <strcmp+0x2d>

c0026be3: 83 ec 0c sub esp,0xc

c0026be6: 68 31 f9 02 c0 push 0xc002f931

c0026beb: 68 83 ed 02 c0 push 0xc002ed83

c0026bf0: 68 3c e8 02 c0 push 0xc002e83c

c0026bf5: 6a 4e push 0x4e

c0026bf7: 68 a7 08 03 c0 push 0xc00308a7

c0026bfc: e8 3c 0d 00 00 call c002793d <debug\_panic>

c0026c01: 85 d2 test edx,edx

c0026c03: 74 0d je c0026c12 <strcmp+0x3e>

c0026c05: 0f b6 01 movzx eax,BYTE PTR [ecx]

c0026c08: 84 c0 test al,al

c0026c0a: 74 35 je c0026c41 <strcmp+0x6d>

c0026c0c: 3a 02 cmp al,BYTE PTR [edx]

c0026c0e: 74 20 je c0026c30 <strcmp+0x5c>

c0026c10: eb 2f jmp c0026c41 <strcmp+0x6d>

c0026c12: 83 ec 0c sub esp,0xc

c0026c15: 68 01 09 03 c0 push 0xc0030901

c0026c1a: 68 83 ed 02 c0 push 0xc002ed83

c0026c1f: 68 3c e8 02 c0 push 0xc002e83c

c0026c24: 6a 4f push 0x4f

c0026c26: 68 a7 08 03 c0 push 0xc00308a7

c0026c2b: e8 0d 0d 00 00 call c002793d <debug\_panic>

c0026c30: 83 c1 01 add ecx,0x1

c0026c33: 83 c2 01 add edx,0x1

c0026c36: 0f b6 01 movzx eax,BYTE PTR [ecx]

c0026c39: 84 c0 test al,al

c0026c3b: 74 04 je c0026c41 <strcmp+0x6d>

c0026c3d: 3a 02 cmp al,BYTE PTR [edx]

c0026c3f: 74 ef je c0026c30 <strcmp+0x5c>

c0026c41: 0f b6 12 movzx edx,BYTE PTR [edx]

c0026c44: 38 c2 cmp dl,al

c0026c46: 77 08 ja c0026c50 <strcmp+0x7c>

c0026c48: 0f 92 c0 setb al

c0026c4b: 0f b6 c0 movzx eax,al

c0026c4e: eb 05 jmp c0026c55 <strcmp+0x81>

c0026c50: b8 ff ff ff ff mov eax,0xffffffff

c0026c55: 83 c4 0c add esp,0xc

c0026c58: c3 ret

c0026c59 <memchr>:

c0026c59: 53 push ebx

c0026c5a: 83 ec 08 sub esp,0x8

c0026c5d: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0026c61: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0026c65: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

c0026c69: 89 d3 mov ebx,edx

c0026c6b: 85 c0 test eax,eax

c0026c6d: 75 04 jne c0026c73 <memchr+0x1a>

c0026c6f: 85 c9 test ecx,ecx

c0026c71: 75 0f jne c0026c82 <memchr+0x29>

c0026c73: 85 c9 test ecx,ecx

c0026c75: 74 3e je c0026cb5 <memchr+0x5c>

c0026c77: 3a 10 cmp dl,BYTE PTR [eax]

c0026c79: 74 3f je c0026cba <memchr+0x61>

c0026c7b: 8d 50 01 lea edx,[eax+0x1]

c0026c7e: 01 c1 add ecx,eax

c0026c80: eb 26 jmp c0026ca8 <memchr+0x4f>

c0026c82: 83 ec 0c sub esp,0xc

c0026c85: 68 0b 09 03 c0 push 0xc003090b

c0026c8a: 68 83 ed 02 c0 push 0xc002ed83

c0026c8f: 68 34 e8 02 c0 push 0xc002e834

c0026c94: 6a 63 push 0x63

c0026c96: 68 a7 08 03 c0 push 0xc00308a7

c0026c9b: e8 9d 0c 00 00 call c002793d <debug\_panic>

c0026ca0: 83 c2 01 add edx,0x1

c0026ca3: 3a 5a ff cmp bl,BYTE PTR [edx-0x1]

c0026ca6: 74 12 je c0026cba <memchr+0x61>

c0026ca8: 89 d0 mov eax,edx

c0026caa: 39 ca cmp edx,ecx

c0026cac: 75 f2 jne c0026ca0 <memchr+0x47>

c0026cae: b8 00 00 00 00 mov eax,0x0

c0026cb3: eb 05 jmp c0026cba <memchr+0x61>

c0026cb5: b8 00 00 00 00 mov eax,0x0

c0026cba: 83 c4 08 add esp,0x8

c0026cbd: 5b pop ebx

c0026cbe: c3 ret

c0026cbf <strchr>:

c0026cbf: 53 push ebx

c0026cc0: 83 ec 08 sub esp,0x8

c0026cc3: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0026cc7: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0026ccb: 85 c0 test eax,eax

c0026ccd: 74 0b je c0026cda <strchr+0x1b>

c0026ccf: 89 d1 mov ecx,edx

c0026cd1: 0f b6 18 movzx ebx,BYTE PTR [eax]

c0026cd4: 38 da cmp dl,bl

c0026cd6: 75 20 jne c0026cf8 <strchr+0x39>

c0026cd8: eb 40 jmp c0026d1a <strchr+0x5b>

c0026cda: 83 ec 0c sub esp,0xc

c0026cdd: 68 26 09 03 c0 push 0xc0030926

c0026ce2: 68 83 ed 02 c0 push 0xc002ed83

c0026ce7: 68 2c e8 02 c0 push 0xc002e82c

c0026cec: 6a 75 push 0x75

c0026cee: 68 a7 08 03 c0 push 0xc00308a7

c0026cf3: e8 45 0c 00 00 call c002793d <debug\_panic>

c0026cf8: 84 db test bl,bl

c0026cfa: 75 06 jne c0026d02 <strchr+0x43>

c0026cfc: eb 10 jmp c0026d0e <strchr+0x4f>

c0026cfe: 84 d2 test dl,dl

c0026d00: 74 13 je c0026d15 <strchr+0x56>

c0026d02: 83 c0 01 add eax,0x1

c0026d05: 0f b6 10 movzx edx,BYTE PTR [eax]

c0026d08: 38 d1 cmp cl,dl

c0026d0a: 75 f2 jne c0026cfe <strchr+0x3f>

c0026d0c: eb 0c jmp c0026d1a <strchr+0x5b>

c0026d0e: b8 00 00 00 00 mov eax,0x0

c0026d13: eb 05 jmp c0026d1a <strchr+0x5b>

c0026d15: b8 00 00 00 00 mov eax,0x0

c0026d1a: 83 c4 08 add esp,0x8

c0026d1d: 5b pop ebx

c0026d1e: c3 ret

c0026d1f <strcspn>:

c0026d1f: 57 push edi

c0026d20: 56 push esi

c0026d21: 53 push ebx

c0026d22: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0026d26: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c0026d2a: 0f b6 06 movzx eax,BYTE PTR [esi]

c0026d2d: 84 c0 test al,al

c0026d2f: 74 26 je c0026d57 <strcspn+0x38>

c0026d31: bb 00 00 00 00 mov ebx,0x0

c0026d36: 83 ec 08 sub esp,0x8

c0026d39: 0f be c0 movsx eax,al

c0026d3c: 50 push eax

c0026d3d: 57 push edi

c0026d3e: e8 7c ff ff ff call c0026cbf <strchr>

c0026d43: 83 c4 10 add esp,0x10

c0026d46: 85 c0 test eax,eax

c0026d48: 75 12 jne c0026d5c <strcspn+0x3d>

c0026d4a: 83 c3 01 add ebx,0x1

c0026d4d: 0f b6 04 1e movzx eax,BYTE PTR [esi+ebx\*1]

c0026d51: 84 c0 test al,al

c0026d53: 75 e1 jne c0026d36 <strcspn+0x17>

c0026d55: eb 05 jmp c0026d5c <strcspn+0x3d>

c0026d57: bb 00 00 00 00 mov ebx,0x0

c0026d5c: 89 d8 mov eax,ebx

c0026d5e: 5b pop ebx

c0026d5f: 5e pop esi

c0026d60: 5f pop edi

c0026d61: c3 ret

c0026d62 <strpbrk>:

c0026d62: 56 push esi

c0026d63: 53 push ebx

c0026d64: 83 ec 04 sub esp,0x4

c0026d67: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0026d6b: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0026d6f: 0f b6 13 movzx edx,BYTE PTR [ebx]

c0026d72: 84 d2 test dl,dl

c0026d74: 74 20 je c0026d96 <strpbrk+0x34>

c0026d76: 83 ec 08 sub esp,0x8

c0026d79: 0f be d2 movsx edx,dl

c0026d7c: 52 push edx

c0026d7d: 56 push esi

c0026d7e: e8 3c ff ff ff call c0026cbf <strchr>

c0026d83: 83 c4 10 add esp,0x10

c0026d86: 85 c0 test eax,eax

c0026d88: 75 13 jne c0026d9d <strpbrk+0x3b>

c0026d8a: 83 c3 01 add ebx,0x1

c0026d8d: 0f b6 13 movzx edx,BYTE PTR [ebx]

c0026d90: 84 d2 test dl,dl

c0026d92: 75 e2 jne c0026d76 <strpbrk+0x14>

c0026d94: eb 09 jmp c0026d9f <strpbrk+0x3d>

c0026d96: b8 00 00 00 00 mov eax,0x0

c0026d9b: eb 02 jmp c0026d9f <strpbrk+0x3d>

c0026d9d: 89 d8 mov eax,ebx

c0026d9f: 83 c4 04 add esp,0x4

c0026da2: 5b pop ebx

c0026da3: 5e pop esi

c0026da4: c3 ret

c0026da5 <strrchr>:

c0026da5: 53 push ebx

c0026da6: 8b 54 24 08 mov edx,DWORD PTR [esp+0x8]

c0026daa: 0f b6 5c 24 0c movzx ebx,BYTE PTR [esp+0xc]

c0026daf: 0f b6 0a movzx ecx,BYTE PTR [edx]

c0026db2: 84 c9 test cl,cl

c0026db4: 74 16 je c0026dcc <strrchr+0x27>

c0026db6: b8 00 00 00 00 mov eax,0x0

c0026dbb: 38 cb cmp bl,cl

c0026dbd: 0f 44 c2 cmove eax,edx

c0026dc0: 83 c2 01 add edx,0x1

c0026dc3: 0f b6 0a movzx ecx,BYTE PTR [edx]

c0026dc6: 84 c9 test cl,cl

c0026dc8: 75 f1 jne c0026dbb <strrchr+0x16>

c0026dca: eb 05 jmp c0026dd1 <strrchr+0x2c>

c0026dcc: b8 00 00 00 00 mov eax,0x0

c0026dd1: 5b pop ebx

c0026dd2: c3 ret

c0026dd3 <strspn>:

c0026dd3: 57 push edi

c0026dd4: 56 push esi

c0026dd5: 53 push ebx

c0026dd6: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0026dda: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c0026dde: 0f b6 06 movzx eax,BYTE PTR [esi]

c0026de1: 84 c0 test al,al

c0026de3: 74 26 je c0026e0b <strspn+0x38>

c0026de5: bb 00 00 00 00 mov ebx,0x0

c0026dea: 83 ec 08 sub esp,0x8

c0026ded: 0f be c0 movsx eax,al

c0026df0: 50 push eax

c0026df1: 57 push edi

c0026df2: e8 c8 fe ff ff call c0026cbf <strchr>

c0026df7: 83 c4 10 add esp,0x10

c0026dfa: 85 c0 test eax,eax

c0026dfc: 74 12 je c0026e10 <strspn+0x3d>

c0026dfe: 83 c3 01 add ebx,0x1

c0026e01: 0f b6 04 1e movzx eax,BYTE PTR [esi+ebx\*1]

c0026e05: 84 c0 test al,al

c0026e07: 75 e1 jne c0026dea <strspn+0x17>

c0026e09: eb 05 jmp c0026e10 <strspn+0x3d>

c0026e0b: bb 00 00 00 00 mov ebx,0x0

c0026e10: 89 d8 mov eax,ebx

c0026e12: 5b pop ebx

c0026e13: 5e pop esi

c0026e14: 5f pop edi

c0026e15: c3 ret

c0026e16 <strtok\_r>:

c0026e16: 55 push ebp

c0026e17: 57 push edi

c0026e18: 56 push esi

c0026e19: 53 push ebx

c0026e1a: 83 ec 0c sub esp,0xc

c0026e1d: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c0026e21: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

c0026e25: 85 f6 test esi,esi

c0026e27: 75 21 jne c0026e4a <strtok\_r+0x34>

c0026e29: 83 ec 0c sub esp,0xc

c0026e2c: 68 35 09 03 c0 push 0xc0030935

c0026e31: 68 83 ed 02 c0 push 0xc002ed83

c0026e36: 68 20 e8 02 c0 push 0xc002e820

c0026e3b: 68 ef 00 00 00 push 0xef

c0026e40: 68 a7 08 03 c0 push 0xc00308a7

c0026e45: e8 f3 0a 00 00 call c002793d <debug\_panic>

c0026e4a: 83 7c 24 28 00 cmp DWORD PTR [esp+0x28],0x0

c0026e4f: 75 21 jne c0026e72 <strtok\_r+0x5c>

c0026e51: 83 ec 0c sub esp,0xc

c0026e54: 68 48 09 03 c0 push 0xc0030948

c0026e59: 68 83 ed 02 c0 push 0xc002ed83

c0026e5e: 68 20 e8 02 c0 push 0xc002e820

c0026e63: 68 f0 00 00 00 push 0xf0

c0026e68: 68 a7 08 03 c0 push 0xc00308a7

c0026e6d: e8 cb 0a 00 00 call c002793d <debug\_panic>

c0026e72: 85 db test ebx,ebx

c0026e74: 75 41 jne c0026eb7 <strtok\_r+0xa1>

c0026e76: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0026e7a: 8b 18 mov ebx,DWORD PTR [eax]

c0026e7c: 85 db test ebx,ebx

c0026e7e: 75 37 jne c0026eb7 <strtok\_r+0xa1>

c0026e80: 83 ec 0c sub esp,0xc

c0026e83: 68 3e 09 03 c0 push 0xc003093e

c0026e88: 68 83 ed 02 c0 push 0xc002ed83

c0026e8d: 68 20 e8 02 c0 push 0xc002e820

c0026e92: 68 f6 00 00 00 push 0xf6

c0026e97: 68 a7 08 03 c0 push 0xc00308a7

c0026e9c: e8 9c 0a 00 00 call c002793d <debug\_panic>

c0026ea1: 89 f8 mov eax,edi

c0026ea3: 84 c0 test al,al

c0026ea5: 75 0d jne c0026eb4 <strtok\_r+0x9e>

c0026ea7: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0026eab: 89 18 mov DWORD PTR [eax],ebx

c0026ead: b8 00 00 00 00 mov eax,0x0

c0026eb2: eb 58 jmp c0026f0c <strtok\_r+0xf6>

c0026eb4: 83 c3 01 add ebx,0x1

c0026eb7: 0f b6 3b movzx edi,BYTE PTR [ebx]

c0026eba: 83 ec 08 sub esp,0x8

c0026ebd: 89 f8 mov eax,edi

c0026ebf: 0f be c0 movsx eax,al

c0026ec2: 50 push eax

c0026ec3: 56 push esi

c0026ec4: e8 f6 fd ff ff call c0026cbf <strchr>

c0026ec9: 83 c4 10 add esp,0x10

c0026ecc: 85 c0 test eax,eax

c0026ece: 75 d1 jne c0026ea1 <strtok\_r+0x8b>

c0026ed0: 89 df mov edi,ebx

c0026ed2: 83 c7 01 add edi,0x1

c0026ed5: 0f b6 2f movzx ebp,BYTE PTR [edi]

c0026ed8: 83 ec 08 sub esp,0x8

c0026edb: 89 e8 mov eax,ebp

c0026edd: 0f be c0 movsx eax,al

c0026ee0: 50 push eax

c0026ee1: 56 push esi

c0026ee2: e8 d8 fd ff ff call c0026cbf <strchr>

c0026ee7: 83 c4 10 add esp,0x10

c0026eea: 85 c0 test eax,eax

c0026eec: 74 e4 je c0026ed2 <strtok\_r+0xbc>

c0026eee: 89 e8 mov eax,ebp

c0026ef0: 84 c0 test al,al

c0026ef2: 74 10 je c0026f04 <strtok\_r+0xee>

c0026ef4: c6 07 00 mov BYTE PTR [edi],0x0

c0026ef7: 83 c7 01 add edi,0x1

c0026efa: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0026efe: 89 38 mov DWORD PTR [eax],edi

c0026f00: 89 d8 mov eax,ebx

c0026f02: eb 08 jmp c0026f0c <strtok\_r+0xf6>

c0026f04: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0026f08: 89 38 mov DWORD PTR [eax],edi

c0026f0a: 89 d8 mov eax,ebx

c0026f0c: 83 c4 0c add esp,0xc

c0026f0f: 5b pop ebx

c0026f10: 5e pop esi

c0026f11: 5f pop edi

c0026f12: 5d pop ebp

c0026f13: c3 ret

c0026f14 <memset>:

c0026f14: 56 push esi

c0026f15: 53 push ebx

c0026f16: 83 ec 04 sub esp,0x4

c0026f19: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0026f1d: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c0026f21: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c0026f25: 85 c0 test eax,eax

c0026f27: 75 04 jne c0026f2d <memset+0x19>

c0026f29: 85 f6 test esi,esi

c0026f2b: 75 0b jne c0026f38 <memset+0x24>

c0026f2d: 8d 0c 30 lea ecx,[eax+esi\*1]

c0026f30: 89 c2 mov edx,eax

c0026f32: 85 f6 test esi,esi

c0026f34: 75 23 jne c0026f59 <memset+0x45>

c0026f36: eb 2b jmp c0026f63 <memset+0x4f>

c0026f38: 83 ec 0c sub esp,0xc

c0026f3b: 68 8e 08 03 c0 push 0xc003088e

c0026f40: 68 83 ed 02 c0 push 0xc002ed83

c0026f45: 68 18 e8 02 c0 push 0xc002e818

c0026f4a: 68 1b 01 00 00 push 0x11b

c0026f4f: 68 a7 08 03 c0 push 0xc00308a7

c0026f54: e8 e4 09 00 00 call c002793d <debug\_panic>

c0026f59: 83 c2 01 add edx,0x1

c0026f5c: 88 5a ff mov BYTE PTR [edx-0x1],bl

c0026f5f: 39 d1 cmp ecx,edx

c0026f61: 75 f6 jne c0026f59 <memset+0x45>

c0026f63: 83 c4 04 add esp,0x4

c0026f66: 5b pop ebx

c0026f67: 5e pop esi

c0026f68: c3 ret

c0026f69 <strlen>:

c0026f69: 83 ec 0c sub esp,0xc

c0026f6c: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c0026f70: 85 d2 test edx,edx

c0026f72: 74 09 je c0026f7d <strlen+0x14>

c0026f74: 89 d0 mov eax,edx

c0026f76: 80 3a 00 cmp BYTE PTR [edx],0x0

c0026f79: 74 2d je c0026fa8 <strlen+0x3f>

c0026f7b: eb 21 jmp c0026f9e <strlen+0x35>

c0026f7d: 83 ec 0c sub esp,0xc

c0026f80: 68 26 09 03 c0 push 0xc0030926

c0026f85: 68 83 ed 02 c0 push 0xc002ed83

c0026f8a: 68 10 e8 02 c0 push 0xc002e810

c0026f8f: 68 29 01 00 00 push 0x129

c0026f94: 68 a7 08 03 c0 push 0xc00308a7

c0026f99: e8 9f 09 00 00 call c002793d <debug\_panic>

c0026f9e: 89 d0 mov eax,edx

c0026fa0: 83 c0 01 add eax,0x1

c0026fa3: 80 38 00 cmp BYTE PTR [eax],0x0

c0026fa6: 75 f8 jne c0026fa0 <strlen+0x37>

c0026fa8: 29 d0 sub eax,edx

c0026faa: 83 c4 0c add esp,0xc

c0026fad: c3 ret

c0026fae <strstr>:

c0026fae: 55 push ebp

c0026faf: 57 push edi

c0026fb0: 56 push esi

c0026fb1: 53 push ebx

c0026fb2: 83 ec 1c sub esp,0x1c

c0026fb5: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c0026fb9: bb ff ff ff ff mov ebx,0xffffffff

c0026fbe: b8 00 00 00 00 mov eax,0x0

c0026fc3: 89 d9 mov ecx,ebx

c0026fc5: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

c0026fc9: f2 ae repnz scas al,BYTE PTR es:[edi]

c0026fcb: f7 d1 not ecx

c0026fcd: 8d 51 ff lea edx,[ecx-0x1]

c0026fd0: 89 d9 mov ecx,ebx

c0026fd2: 89 ef mov edi,ebp

c0026fd4: f2 ae repnz scas al,BYTE PTR es:[edi]

c0026fd6: 89 c8 mov eax,ecx

c0026fd8: f7 d0 not eax

c0026fda: 8d 78 ff lea edi,[eax-0x1]

c0026fdd: 39 fa cmp edx,edi

c0026fdf: 72 33 jb c0027014 <strstr+0x66>

c0026fe1: 29 fa sub edx,edi

c0026fe3: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0026fe7: bb 00 00 00 00 mov ebx,0x0

c0026fec: 89 de mov esi,ebx

c0026fee: 03 74 24 30 add esi,DWORD PTR [esp+0x30]

c0026ff2: 83 ec 04 sub esp,0x4

c0026ff5: 57 push edi

c0026ff6: 55 push ebp

c0026ff7: 56 push esi

c0026ff8: e8 2f fb ff ff call c0026b2c <memcmp>

c0026ffd: 83 c4 10 add esp,0x10

c0027000: 85 c0 test eax,eax

c0027002: 74 17 je c002701b <strstr+0x6d>

c0027004: 83 c3 01 add ebx,0x1

c0027007: 3b 5c 24 0c cmp ebx,DWORD PTR [esp+0xc]

c002700b: 76 df jbe c0026fec <strstr+0x3e>

c002700d: b8 00 00 00 00 mov eax,0x0

c0027012: eb 09 jmp c002701d <strstr+0x6f>

c0027014: b8 00 00 00 00 mov eax,0x0

c0027019: eb 02 jmp c002701d <strstr+0x6f>

c002701b: 89 f0 mov eax,esi

c002701d: 83 c4 1c add esp,0x1c

c0027020: 5b pop ebx

c0027021: 5e pop esi

c0027022: 5f pop edi

c0027023: 5d pop ebp

c0027024: c3 ret

c0027025 <strnlen>:

c0027025: 8b 54 24 04 mov edx,DWORD PTR [esp+0x4]

c0027029: 8b 4c 24 08 mov ecx,DWORD PTR [esp+0x8]

c002702d: 80 3a 00 cmp BYTE PTR [edx],0x0

c0027030: 74 18 je c002704a <strnlen+0x25>

c0027032: 85 c9 test ecx,ecx

c0027034: 74 14 je c002704a <strnlen+0x25>

c0027036: b8 00 00 00 00 mov eax,0x0

c002703b: 83 c0 01 add eax,0x1

c002703e: 80 3c 02 00 cmp BYTE PTR [edx+eax\*1],0x0

c0027042: 74 0b je c002704f <strnlen+0x2a>

c0027044: 39 c1 cmp ecx,eax

c0027046: 77 f3 ja c002703b <strnlen+0x16>

c0027048: f3 c3 repz ret

c002704a: b8 00 00 00 00 mov eax,0x0

c002704f: f3 c3 repz ret

c0027051 <strlcpy>:

c0027051: 55 push ebp

c0027052: 57 push edi

c0027053: 56 push esi

c0027054: 53 push ebx

c0027055: 83 ec 0c sub esp,0xc

c0027058: 8b 74 24 20 mov esi,DWORD PTR [esp+0x20]

c002705c: 8b 6c 24 24 mov ebp,DWORD PTR [esp+0x24]

c0027060: 8b 54 24 28 mov edx,DWORD PTR [esp+0x28]

c0027064: 85 f6 test esi,esi

c0027066: 75 21 jne c0027089 <strlcpy+0x38>

c0027068: 83 ec 0c sub esp,0xc

c002706b: 68 59 09 03 c0 push 0xc0030959

c0027070: 68 83 ed 02 c0 push 0xc002ed83

c0027075: 68 08 e8 02 c0 push 0xc002e808

c002707a: 68 4a 01 00 00 push 0x14a

c002707f: 68 a7 08 03 c0 push 0xc00308a7

c0027084: e8 b4 08 00 00 call c002793d <debug\_panic>

c0027089: 85 ed test ebp,ebp

c002708b: 75 21 jne c00270ae <strlcpy+0x5d>

c002708d: 83 ec 0c sub esp,0xc

c0027090: 68 65 09 03 c0 push 0xc0030965

c0027095: 68 83 ed 02 c0 push 0xc002ed83

c002709a: 68 08 e8 02 c0 push 0xc002e808

c002709f: 68 4b 01 00 00 push 0x14b

c00270a4: 68 a7 08 03 c0 push 0xc00308a7

c00270a9: e8 8f 08 00 00 call c002793d <debug\_panic>

c00270ae: b8 00 00 00 00 mov eax,0x0

c00270b3: b9 ff ff ff ff mov ecx,0xffffffff

c00270b8: 89 ef mov edi,ebp

c00270ba: f2 ae repnz scas al,BYTE PTR es:[edi]

c00270bc: f7 d1 not ecx

c00270be: 8d 59 ff lea ebx,[ecx-0x1]

c00270c1: 85 d2 test edx,edx

c00270c3: 74 1c je c00270e1 <strlcpy+0x90>

c00270c5: 83 ea 01 sub edx,0x1

c00270c8: 39 d3 cmp ebx,edx

c00270ca: 89 d7 mov edi,edx

c00270cc: 0f 46 fb cmovbe edi,ebx

c00270cf: 83 ec 04 sub esp,0x4

c00270d2: 57 push edi

c00270d3: 55 push ebp

c00270d4: 56 push esi

c00270d5: e8 2d f9 ff ff call c0026a07 <memcpy>

c00270da: c6 04 3e 00 mov BYTE PTR [esi+edi\*1],0x0

c00270de: 83 c4 10 add esp,0x10

c00270e1: 89 d8 mov eax,ebx

c00270e3: 83 c4 0c add esp,0xc

c00270e6: 5b pop ebx

c00270e7: 5e pop esi

c00270e8: 5f pop edi

c00270e9: 5d pop ebp

c00270ea: c3 ret

c00270eb <strlcat>:

c00270eb: 55 push ebp

c00270ec: 57 push edi

c00270ed: 56 push esi

c00270ee: 53 push ebx

c00270ef: 83 ec 0c sub esp,0xc

c00270f2: 8b 54 24 24 mov edx,DWORD PTR [esp+0x24]

c00270f6: 83 7c 24 20 00 cmp DWORD PTR [esp+0x20],0x0

c00270fb: 75 21 jne c002711e <strlcat+0x33>

c00270fd: 83 ec 0c sub esp,0xc

c0027100: 68 59 09 03 c0 push 0xc0030959

c0027105: 68 83 ed 02 c0 push 0xc002ed83

c002710a: 68 00 e8 02 c0 push 0xc002e800

c002710f: 68 68 01 00 00 push 0x168

c0027114: 68 a7 08 03 c0 push 0xc00308a7

c0027119: e8 1f 08 00 00 call c002793d <debug\_panic>

c002711e: 85 d2 test edx,edx

c0027120: 75 21 jne c0027143 <strlcat+0x58>

c0027122: 83 ec 0c sub esp,0xc

c0027125: 68 65 09 03 c0 push 0xc0030965

c002712a: 68 83 ed 02 c0 push 0xc002ed83

c002712f: 68 00 e8 02 c0 push 0xc002e800

c0027134: 68 69 01 00 00 push 0x169

c0027139: 68 a7 08 03 c0 push 0xc00308a7

c002713e: e8 fa 07 00 00 call c002793d <debug\_panic>

c0027143: be ff ff ff ff mov esi,0xffffffff

c0027148: b8 00 00 00 00 mov eax,0x0

c002714d: 89 f1 mov ecx,esi

c002714f: 89 d7 mov edi,edx

c0027151: f2 ae repnz scas al,BYTE PTR es:[edi]

c0027153: f7 d1 not ecx

c0027155: 8d 69 ff lea ebp,[ecx-0x1]

c0027158: 89 f1 mov ecx,esi

c002715a: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c002715e: f2 ae repnz scas al,BYTE PTR es:[edi]

c0027160: 89 c8 mov eax,ecx

c0027162: f7 d0 not eax

c0027164: 8d 58 ff lea ebx,[eax-0x1]

c0027167: 83 7c 24 28 00 cmp DWORD PTR [esp+0x28],0x0

c002716c: 74 2c je c002719a <strlcat+0xaf>

c002716e: 3b 5c 24 28 cmp ebx,DWORD PTR [esp+0x28]

c0027172: 73 26 jae c002719a <strlcat+0xaf>

c0027174: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0027178: 8d 70 ff lea esi,[eax-0x1]

c002717b: 29 de sub esi,ebx

c002717d: 39 f5 cmp ebp,esi

c002717f: 0f 46 f5 cmovbe esi,ebp

c0027182: 89 df mov edi,ebx

c0027184: 03 7c 24 20 add edi,DWORD PTR [esp+0x20]

c0027188: 83 ec 04 sub esp,0x4

c002718b: 56 push esi

c002718c: 52 push edx

c002718d: 57 push edi

c002718e: e8 74 f8 ff ff call c0026a07 <memcpy>

c0027193: c6 04 37 00 mov BYTE PTR [edi+esi\*1],0x0

c0027197: 83 c4 10 add esp,0x10

c002719a: 8d 44 1d 00 lea eax,[ebp+ebx\*1+0x0]

c002719e: 83 c4 0c add esp,0xc

c00271a1: 5b pop ebx

c00271a2: 5e pop esi

c00271a3: 5f pop edi

c00271a4: 5d pop ebp

c00271a5: c3 ret

c00271a6 <udiv64>:

c00271a6: 55 push ebp

c00271a7: 57 push edi

c00271a8: 56 push esi

c00271a9: 53 push ebx

c00271aa: 83 ec 1c sub esp,0x1c

c00271ad: 89 04 24 mov DWORD PTR [esp],eax

c00271b0: 89 54 24 04 mov DWORD PTR [esp+0x4],edx

c00271b4: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

c00271b8: 8b 7c 24 34 mov edi,DWORD PTR [esp+0x34]

c00271bc: 85 ff test edi,edi

c00271be: 75 43 jne c0027203 <udiv64+0x5d>

c00271c0: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c00271c4: ba 00 00 00 00 mov edx,0x0

c00271c9: f7 f6 div esi

c00271cb: 89 c7 mov edi,eax

c00271cd: 89 d0 mov eax,edx

c00271cf: 89 c2 mov edx,eax

c00271d1: b8 00 00 00 00 mov eax,0x0

c00271d6: 8b 0c 24 mov ecx,DWORD PTR [esp]

c00271d9: bb 00 00 00 00 mov ebx,0x0

c00271de: 01 c8 add eax,ecx

c00271e0: 11 da adc edx,ebx

c00271e2: f7 f6 div esi

c00271e4: 89 f9 mov ecx,edi

c00271e6: 89 cf mov edi,ecx

c00271e8: be 00 00 00 00 mov esi,0x0

c00271ed: ba 00 00 00 00 mov edx,0x0

c00271f2: 01 c6 add esi,eax

c00271f4: 11 d7 adc edi,edx

c00271f6: 89 74 24 08 mov DWORD PTR [esp+0x8],esi

c00271fa: 89 7c 24 0c mov DWORD PTR [esp+0xc],edi

c00271fe: e9 05 01 00 00 jmp c0027308 <udiv64+0x162>

c0027203: 89 fa mov edx,edi

c0027205: 8b 0c 24 mov ecx,DWORD PTR [esp]

c0027208: 8b 5c 24 04 mov ebx,DWORD PTR [esp+0x4]

c002720c: 39 df cmp edi,ebx

c002720e: 0f 87 e4 00 00 00 ja c00272f8 <udiv64+0x152>

c0027214: 72 08 jb c002721e <udiv64+0x78>

c0027216: 39 ce cmp esi,ecx

c0027218: 0f 87 da 00 00 00 ja c00272f8 <udiv64+0x152>

c002721e: 89 d0 mov eax,edx

c0027220: bd 00 00 00 00 mov ebp,0x0

c0027225: 81 fa ff ff 00 00 cmp edx,0xffff

c002722b: 77 08 ja c0027235 <udiv64+0x8f>

c002722d: c1 e0 10 shl eax,0x10

c0027230: bd 10 00 00 00 mov ebp,0x10

c0027235: 3d ff ff ff 00 cmp eax,0xffffff

c002723a: 77 06 ja c0027242 <udiv64+0x9c>

c002723c: 83 c5 08 add ebp,0x8

c002723f: c1 e0 08 shl eax,0x8

c0027242: 3d ff ff ff 0f cmp eax,0xfffffff

c0027247: 77 06 ja c002724f <udiv64+0xa9>

c0027249: 83 c5 04 add ebp,0x4

c002724c: c1 e0 04 shl eax,0x4

c002724f: 3d ff ff ff 3f cmp eax,0x3fffffff

c0027254: 77 06 ja c002725c <udiv64+0xb6>

c0027256: 83 c5 02 add ebp,0x2

c0027259: c1 e0 02 shl eax,0x2

c002725c: 3d 00 00 00 80 cmp eax,0x80000000

c0027261: 83 d5 00 adc ebp,0x0

c0027264: 8b 04 24 mov eax,DWORD PTR [esp]

c0027267: 8b 54 24 04 mov edx,DWORD PTR [esp+0x4]

c002726b: 0f ac d0 01 shrd eax,edx,0x1

c002726f: d1 ea shr edx,1

c0027271: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c0027275: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0027279: 89 f0 mov eax,esi

c002727b: 89 fa mov edx,edi

c002727d: 89 e9 mov ecx,ebp

c002727f: 0f a5 f2 shld edx,esi,cl

c0027282: d3 e0 shl eax,cl

c0027284: f6 c1 20 test cl,0x20

c0027287: 74 02 je c002728b <udiv64+0xe5>

c0027289: 89 c2 mov edx,eax

c002728b: 89 d3 mov ebx,edx

c002728d: 8b 54 24 0c mov edx,DWORD PTR [esp+0xc]

c0027291: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c0027295: f7 f3 div ebx

c0027297: b9 1f 00 00 00 mov ecx,0x1f

c002729c: 29 e9 sub ecx,ebp

c002729e: d3 e8 shr eax,cl

c00272a0: 89 c2 mov edx,eax

c00272a2: b9 00 00 00 00 mov ecx,0x0

c00272a7: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

c00272ab: 89 4c 24 14 mov DWORD PTR [esp+0x14],ecx

c00272af: 83 c2 ff add edx,0xffffffff

c00272b2: 83 d1 ff adc ecx,0xffffffff

c00272b5: 89 cb mov ebx,ecx

c00272b7: 89 54 24 08 mov DWORD PTR [esp+0x8],edx

c00272bb: 89 5c 24 0c mov DWORD PTR [esp+0xc],ebx

c00272bf: 89 fd mov ebp,edi

c00272c1: 0f af ea imul ebp,edx

c00272c4: 89 d8 mov eax,ebx

c00272c6: 0f af c6 imul eax,esi

c00272c9: 01 c5 add ebp,eax

c00272cb: 89 f0 mov eax,esi

c00272cd: f7 e2 mul edx

c00272cf: 01 ea add edx,ebp

c00272d1: 8b 0c 24 mov ecx,DWORD PTR [esp]

c00272d4: 8b 5c 24 04 mov ebx,DWORD PTR [esp+0x4]

c00272d8: 29 c1 sub ecx,eax

c00272da: 19 d3 sbb ebx,edx

c00272dc: 39 df cmp edi,ebx

c00272de: 77 28 ja c0027308 <udiv64+0x162>

c00272e0: 72 04 jb c00272e6 <udiv64+0x140>

c00272e2: 39 ce cmp esi,ecx

c00272e4: 77 22 ja c0027308 <udiv64+0x162>

c00272e6: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00272ea: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c00272ee: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c00272f2: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c00272f6: eb 10 jmp c0027308 <udiv64+0x162>

c00272f8: c7 44 24 08 00 00 00 mov DWORD PTR [esp+0x8],0x0

c00272ff: 00

c0027300: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

c0027307: 00

c0027308: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c002730c: 8b 54 24 0c mov edx,DWORD PTR [esp+0xc]

c0027310: 83 c4 1c add esp,0x1c

c0027313: 5b pop ebx

c0027314: 5e pop esi

c0027315: 5f pop edi

c0027316: 5d pop ebp

c0027317: c3 ret

c0027318 <sdiv64>:

c0027318: 57 push edi

c0027319: 56 push esi

c002731a: 53 push ebx

c002731b: 83 ec 08 sub esp,0x8

c002731e: 89 04 24 mov DWORD PTR [esp],eax

c0027321: 89 54 24 04 mov DWORD PTR [esp+0x4],edx

c0027325: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c0027329: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

c002732d: 85 d2 test edx,edx

c002732f: 79 07 jns c0027338 <sdiv64+0x20>

c0027331: f7 d8 neg eax

c0027333: 83 d2 00 adc edx,0x0

c0027336: f7 da neg edx

c0027338: 89 f1 mov ecx,esi

c002733a: 89 fb mov ebx,edi

c002733c: 85 ff test edi,edi

c002733e: 79 07 jns c0027347 <sdiv64+0x2f>

c0027340: f7 d9 neg ecx

c0027342: 83 d3 00 adc ebx,0x0

c0027345: f7 db neg ebx

c0027347: 53 push ebx

c0027348: 51 push ecx

c0027349: e8 58 fe ff ff call c00271a6 <udiv64>

c002734e: 83 c4 08 add esp,0x8

c0027351: 8b 4c 24 04 mov ecx,DWORD PTR [esp+0x4]

c0027355: f7 d1 not ecx

c0027357: c1 e9 1f shr ecx,0x1f

c002735a: 89 fb mov ebx,edi

c002735c: c1 eb 1f shr ebx,0x1f

c002735f: 38 d9 cmp cl,bl

c0027361: 75 07 jne c002736a <sdiv64+0x52>

c0027363: f7 d8 neg eax

c0027365: 83 d2 00 adc edx,0x0

c0027368: f7 da neg edx

c002736a: 83 c4 08 add esp,0x8

c002736d: 5b pop ebx

c002736e: 5e pop esi

c002736f: 5f pop edi

c0027370: c3 ret

c0027371 <\_\_divdi3>:

c0027371: 83 ec 04 sub esp,0x4

c0027374: ff 74 24 14 push DWORD PTR [esp+0x14]

c0027378: ff 74 24 14 push DWORD PTR [esp+0x14]

c002737c: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027380: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0027384: e8 8f ff ff ff call c0027318 <sdiv64>

c0027389: 83 c4 0c add esp,0xc

c002738c: c3 ret

c002738d <\_\_moddi3>:

c002738d: 57 push edi

c002738e: 56 push esi

c002738f: 53 push ebx

c0027390: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0027394: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c0027398: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

c002739c: 57 push edi

c002739d: 56 push esi

c002739e: 89 d8 mov eax,ebx

c00273a0: 8b 54 24 1c mov edx,DWORD PTR [esp+0x1c]

c00273a4: e8 6f ff ff ff call c0027318 <sdiv64>

c00273a9: 83 c4 08 add esp,0x8

c00273ac: 0f af f0 imul esi,eax

c00273af: 89 d8 mov eax,ebx

c00273b1: 29 f0 sub eax,esi

c00273b3: 99 cdq

c00273b4: 5b pop ebx

c00273b5: 5e pop esi

c00273b6: 5f pop edi

c00273b7: c3 ret

c00273b8 <\_\_udivdi3>:

c00273b8: 83 ec 04 sub esp,0x4

c00273bb: ff 74 24 14 push DWORD PTR [esp+0x14]

c00273bf: ff 74 24 14 push DWORD PTR [esp+0x14]

c00273c3: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00273c7: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c00273cb: e8 d6 fd ff ff call c00271a6 <udiv64>

c00273d0: 83 c4 0c add esp,0xc

c00273d3: c3 ret

c00273d4 <\_\_umoddi3>:

c00273d4: 57 push edi

c00273d5: 56 push esi

c00273d6: 53 push ebx

c00273d7: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00273db: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c00273df: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

c00273e3: 57 push edi

c00273e4: 56 push esi

c00273e5: 89 d8 mov eax,ebx

c00273e7: 8b 54 24 1c mov edx,DWORD PTR [esp+0x1c]

c00273eb: e8 b6 fd ff ff call c00271a6 <udiv64>

c00273f0: 83 c4 08 add esp,0x8

c00273f3: 0f af f0 imul esi,eax

c00273f6: 89 d8 mov eax,ebx

c00273f8: 29 f0 sub eax,esi

c00273fa: ba 00 00 00 00 mov edx,0x0

c00273ff: 5b pop ebx

c0027400: 5e pop esi

c0027401: 5f pop edi

c0027402: c3 ret

c0027403 <parse\_octal\_field>:

c0027403: 55 push ebp

c0027404: 57 push edi

c0027405: 56 push esi

c0027406: 53 push ebx

c0027407: 83 ec 04 sub esp,0x4

c002740a: 89 04 24 mov DWORD PTR [esp],eax

c002740d: c7 01 00 00 00 00 mov DWORD PTR [ecx],0x0

c0027413: b8 00 00 00 00 mov eax,0x0

c0027418: 85 d2 test edx,edx

c002741a: 74 62 je c002747e <parse\_octal\_field+0x7b>

c002741c: eb 40 jmp c002745e <parse\_octal\_field+0x5b>

c002741e: 8b 04 24 mov eax,DWORD PTR [esp]

c0027421: 0f b6 1c 30 movzx ebx,BYTE PTR [eax+esi\*1]

c0027425: 8d 6b d0 lea ebp,[ebx-0x30]

c0027428: 89 e8 mov eax,ebp

c002742a: 3c 07 cmp al,0x7

c002742c: 77 1f ja c002744d <parse\_octal\_field+0x4a>

c002742e: 81 ff ff ff ff 1f cmp edi,0x1fffffff

c0027434: 77 43 ja c0027479 <parse\_octal\_field+0x76>

c0027436: 0f be db movsx ebx,bl

c0027439: 8d 7c fb d0 lea edi,[ebx+edi\*8-0x30]

c002743d: 89 39 mov DWORD PTR [ecx],edi

c002743f: 83 c6 01 add esi,0x1

c0027442: 39 f2 cmp edx,esi

c0027444: 75 d8 jne c002741e <parse\_octal\_field+0x1b>

c0027446: b8 00 00 00 00 mov eax,0x0

c002744b: eb 31 jmp c002747e <parse\_octal\_field+0x7b>

c002744d: b8 00 00 00 00 mov eax,0x0

c0027452: f6 c3 df test bl,0xdf

c0027455: 75 27 jne c002747e <parse\_octal\_field+0x7b>

c0027457: 85 f6 test esi,esi

c0027459: 0f 95 c0 setne al

c002745c: eb 20 jmp c002747e <parse\_octal\_field+0x7b>

c002745e: 8b 04 24 mov eax,DWORD PTR [esp]

c0027461: 0f b6 18 movzx ebx,BYTE PTR [eax]

c0027464: 8d 6b d0 lea ebp,[ebx-0x30]

c0027467: bf 00 00 00 00 mov edi,0x0

c002746c: be 00 00 00 00 mov esi,0x0

c0027471: 89 e8 mov eax,ebp

c0027473: 3c 07 cmp al,0x7

c0027475: 76 bf jbe c0027436 <parse\_octal\_field+0x33>

c0027477: eb d4 jmp c002744d <parse\_octal\_field+0x4a>

c0027479: b8 00 00 00 00 mov eax,0x0

c002747e: 83 c4 04 add esp,0x4

c0027481: 5b pop ebx

c0027482: 5e pop esi

c0027483: 5f pop edi

c0027484: 5d pop ebp

c0027485: c3 ret

c0027486 <strip\_antisocial\_prefixes>:

c0027486: 57 push edi

c0027487: 56 push esi

c0027488: 53 push ebx

c0027489: 89 c3 mov ebx,eax

c002748b: eb 11 jmp c002749e <strip\_antisocial\_prefix

es+0x18>

c002748d: 83 ec 08 sub esp,0x8

c0027490: 6a 2f push 0x2f

c0027492: 53 push ebx

c0027493: e8 27 f8 ff ff call c0026cbf <strchr>

c0027498: 83 c4 10 add esp,0x10

c002749b: 8d 58 01 lea ebx,[eax+0x1]

c002749e: 0f b6 33 movzx esi,BYTE PTR [ebx]

c00274a1: 89 f0 mov eax,esi

c00274a3: 3c 2f cmp al,0x2f

c00274a5: 74 e6 je c002748d <strip\_antisocial\_prefix

es+0x7>

c00274a7: 83 ec 04 sub esp,0x4

c00274aa: 6a 02 push 0x2

c00274ac: 68 15 fd 02 c0 push 0xc002fd15

c00274b1: 53 push ebx

c00274b2: e8 75 f6 ff ff call c0026b2c <memcmp>

c00274b7: 83 c4 10 add esp,0x10

c00274ba: 85 c0 test eax,eax

c00274bc: 74 cf je c002748d <strip\_antisocial\_prefix

es+0x7>

c00274be: 83 ec 04 sub esp,0x4

c00274c1: 6a 03 push 0x3

c00274c3: 68 71 09 03 c0 push 0xc0030971

c00274c8: 53 push ebx

c00274c9: e8 5e f6 ff ff call c0026b2c <memcmp>

c00274ce: 83 c4 10 add esp,0x10

c00274d1: 85 c0 test eax,eax

c00274d3: 74 b8 je c002748d <strip\_antisocial\_prefix

es+0x7>

c00274d5: b8 8f 02 03 c0 mov eax,0xc003028f

c00274da: 89 f2 mov edx,esi

c00274dc: 84 d2 test dl,dl

c00274de: 74 23 je c0027503 <strip\_antisocial\_prefix

es+0x7d>

c00274e0: bf 8e 02 03 c0 mov edi,0xc003028e

c00274e5: b9 03 00 00 00 mov ecx,0x3

c00274ea: 89 de mov esi,ebx

c00274ec: f3 a6 repz cmps BYTE PTR ds:[esi],BYTE PTR es:

[edi]

c00274ee: 0f 97 c0 seta al

c00274f1: 0f 92 c2 setb dl

c00274f4: 29 d0 sub eax,edx

c00274f6: 0f be c0 movsx eax,al

c00274f9: 85 c0 test eax,eax

c00274fb: b8 8f 02 03 c0 mov eax,0xc003028f

c0027500: 0f 45 c3 cmovne eax,ebx

c0027503: 5b pop ebx

c0027504: 5e pop esi

c0027505: 5f pop edi

c0027506: c3 ret

c0027507 <ustar\_make\_header>:

c0027507: 55 push ebp

c0027508: 57 push edi

c0027509: 56 push esi

c002750a: 53 push ebx

c002750b: 83 ec 0c sub esp,0xc

c002750e: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

c0027512: 8b 5c 24 2c mov ebx,DWORD PTR [esp+0x2c]

c0027516: 83 fe 30 cmp esi,0x30

c0027519: 0f 94 c2 sete dl

c002751c: 83 fe 35 cmp esi,0x35

c002751f: 0f 94 c0 sete al

c0027522: 08 c2 or dl,al

c0027524: 75 1e jne c0027544 <ustar\_make\_header+0x3d>

c0027526: 83 ec 0c sub esp,0xc

c0027529: 68 5c 0a 03 c0 push 0xc0030a5c

c002752e: 68 83 ed 02 c0 push 0xc002ed83

c0027533: 68 5c e8 02 c0 push 0xc002e85c

c0027538: 6a 59 push 0x59

c002753a: 68 75 09 03 c0 push 0xc0030975

c002753f: e8 f9 03 00 00 call c002793d <debug\_panic>

c0027544: 89 d5 mov ebp,edx

c0027546: 8b 44 24 20 mov eax,DWORD PTR [esp+0x20]

c002754a: e8 37 ff ff ff call c0027486 <strip\_antisocial\_prefix

es>

c002754f: 89 c2 mov edx,eax

c0027551: b8 00 00 00 00 mov eax,0x0

c0027556: b9 ff ff ff ff mov ecx,0xffffffff

c002755b: 89 d7 mov edi,edx

c002755d: f2 ae repnz scas al,BYTE PTR es:[edi]

c002755f: f7 d1 not ecx

c0027561: 83 e9 01 sub ecx,0x1

c0027564: 83 f9 63 cmp ecx,0x63

c0027567: 76 1b jbe c0027584 <ustar\_make\_header+0x7d>

c0027569: 83 ec 08 sub esp,0x8

c002756c: 52 push edx

c002756d: 68 87 09 03 c0 push 0xc0030987

c0027572: e8 4e e7 ff ff call c0025cc5 <printf>

c0027577: 83 c4 10 add esp,0x10

c002757a: bd 00 00 00 00 mov ebp,0x0

c002757f: e9 4b 01 00 00 jmp c00276cf <ustar\_make\_header+0x1c8

>

c0027584: c7 03 00 00 00 00 mov DWORD PTR [ebx],0x0

c002758a: c7 83 fc 01 00 00 00 mov DWORD PTR [ebx+0x1fc],0x0

c0027591: 00 00 00

c0027594: 8d 7b 04 lea edi,[ebx+0x4]

c0027597: 83 e7 fc and edi,0xfffffffc

c002759a: 89 d9 mov ecx,ebx

c002759c: 29 f9 sub ecx,edi

c002759e: 81 c1 00 02 00 00 add ecx,0x200

c00275a4: c1 e9 02 shr ecx,0x2

c00275a7: b8 00 00 00 00 mov eax,0x0

c00275ac: f3 ab rep stos DWORD PTR es:[edi],eax

c00275ae: 83 ec 04 sub esp,0x4

c00275b1: 6a 64 push 0x64

c00275b3: 52 push edx

c00275b4: 53 push ebx

c00275b5: e8 97 fa ff ff call c0027051 <strlcpy>

c00275ba: 83 c4 10 add esp,0x10

c00275bd: 83 fe 30 cmp esi,0x30

c00275c0: ba ed 01 00 00 mov edx,0x1ed

c00275c5: b8 a4 01 00 00 mov eax,0x1a4

c00275ca: 0f 45 c2 cmovne eax,edx

c00275cd: 50 push eax

c00275ce: 68 9f 09 03 c0 push 0xc003099f

c00275d3: 6a 08 push 0x8

c00275d5: 8d 43 64 lea eax,[ebx+0x64]

c00275d8: 50 push eax

c00275d9: e8 f4 ed ff ff call c00263d2 <snprintf>

c00275de: 83 c4 0c add esp,0xc

c00275e1: 6a 08 push 0x8

c00275e3: 68 a4 09 03 c0 push 0xc00309a4

c00275e8: 8d 43 6c lea eax,[ebx+0x6c]

c00275eb: 50 push eax

c00275ec: e8 60 fa ff ff call c0027051 <strlcpy>

c00275f1: 83 c4 0c add esp,0xc

c00275f4: 6a 08 push 0x8

c00275f6: 68 a4 09 03 c0 push 0xc00309a4

c00275fb: 8d 43 74 lea eax,[ebx+0x74]

c00275fe: 50 push eax

c00275ff: e8 4d fa ff ff call c0027051 <strlcpy>

c0027604: ff 74 24 38 push DWORD PTR [esp+0x38]

c0027608: 68 ac 09 03 c0 push 0xc00309ac

c002760d: 6a 0c push 0xc

c002760f: 8d 43 7c lea eax,[ebx+0x7c]

c0027612: 50 push eax

c0027613: e8 ba ed ff ff call c00263d2 <snprintf>

c0027618: 83 c4 20 add esp,0x20

c002761b: 68 00 8c b7 43 push 0x43b78c00

c0027620: 68 ac 09 03 c0 push 0xc00309ac

c0027625: 6a 0c push 0xc

c0027627: 8d 83 88 00 00 00 lea eax,[ebx+0x88]

c002762d: 50 push eax

c002762e: e8 9f ed ff ff call c00263d2 <snprintf>

c0027633: 89 f0 mov eax,esi

c0027635: 88 83 9c 00 00 00 mov BYTE PTR [ebx+0x9c],al

c002763b: 83 c4 0c add esp,0xc

c002763e: 6a 06 push 0x6

c0027640: 68 b2 09 03 c0 push 0xc00309b2

c0027645: 8d 83 01 01 00 00 lea eax,[ebx+0x101]

c002764b: 50 push eax

c002764c: e8 00 fa ff ff call c0027051 <strlcpy>

c0027651: c6 83 08 01 00 00 30 mov BYTE PTR [ebx+0x108],0x30

c0027658: c6 83 07 01 00 00 30 mov BYTE PTR [ebx+0x107],0x30

c002765f: 83 c4 0c add esp,0xc

c0027662: 6a 20 push 0x20

c0027664: 68 c0 fe 02 c0 push 0xc002fec0

c0027669: 8d 83 29 01 00 00 lea eax,[ebx+0x129]

c002766f: 50 push eax

c0027670: e8 dc f9 ff ff call c0027051 <strlcpy>

c0027675: 83 c4 0c add esp,0xc

c0027678: 6a 20 push 0x20

c002767a: 68 c0 fe 02 c0 push 0xc002fec0

c002767f: 8d 83 09 01 00 00 lea eax,[ebx+0x109]

c0027685: 50 push eax

c0027686: e8 c6 f9 ff ff call c0027051 <strlcpy>

c002768b: 83 c4 10 add esp,0x10

c002768e: b8 6c ff ff ff mov eax,0xffffff6c

c0027693: ba 00 00 00 00 mov edx,0x0

c0027698: 83 f8 07 cmp eax,0x7

c002769b: 76 0a jbe c00276a7 <ustar\_make\_header+0x1a0

>

c002769d: 0f b6 8c 03 94 00 00 movzx ecx,BYTE PTR [ebx+eax\*1+0x94]

c00276a4: 00

c00276a5: eb 05 jmp c00276ac <ustar\_make\_header+0x1a5

>

c00276a7: b9 20 00 00 00 mov ecx,0x20

c00276ac: 01 ca add edx,ecx

c00276ae: 83 c0 01 add eax,0x1

c00276b1: 3d 6c 01 00 00 cmp eax,0x16c

c00276b6: 75 e0 jne c0027698 <ustar\_make\_header+0x191

>

c00276b8: 52 push edx

c00276b9: 68 9f 09 03 c0 push 0xc003099f

c00276be: 6a 08 push 0x8

c00276c0: 81 c3 94 00 00 00 add ebx,0x94

c00276c6: 53 push ebx

c00276c7: e8 06 ed ff ff call c00263d2 <snprintf>

c00276cc: 83 c4 10 add esp,0x10

c00276cf: 89 e8 mov eax,ebp

c00276d1: 83 c4 0c add esp,0xc

c00276d4: 5b pop ebx

c00276d5: 5e pop esi

c00276d6: 5f pop edi

c00276d7: 5d pop ebp

c00276d8: c3 ret

c00276d9 <ustar\_parse\_header>:

c00276d9: 53 push ebx

c00276da: 83 ec 18 sub esp,0x18

c00276dd: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c00276e1: 8d 93 00 02 00 00 lea edx,[ebx+0x200]

c00276e7: 89 d8 mov eax,ebx

c00276e9: 83 c0 01 add eax,0x1

c00276ec: 80 78 ff 00 cmp BYTE PTR [eax-0x1],0x0

c00276f0: 0f 85 1d 01 00 00 jne c0027813 <ustar\_parse\_header+0x13

a>

c00276f6: 39 d0 cmp eax,edx

c00276f8: 75 ef jne c00276e9 <ustar\_parse\_header+0x10

>

c00276fa: e9 3c 01 00 00 jmp c002783b <ustar\_parse\_header+0x16

2>

c00276ff: b9 cc 09 03 c0 mov ecx,0xc00309cc

c0027704: 80 bb 07 01 00 00 30 cmp BYTE PTR [ebx+0x107],0x30

c002770b: 0f 85 4d 01 00 00 jne c002785e <ustar\_parse\_header+0x18

5>

c0027711: 80 bb 08 01 00 00 30 cmp BYTE PTR [ebx+0x108],0x30

c0027718: 0f 85 40 01 00 00 jne c002785e <ustar\_parse\_header+0x18

5>

c002771e: 8d 83 94 00 00 00 lea eax,[ebx+0x94]

c0027724: 8d 4c 24 0c lea ecx,[esp+0xc]

c0027728: ba 08 00 00 00 mov edx,0x8

c002772d: e8 d1 fc ff ff call c0027403 <parse\_octal\_field>

c0027732: b9 e2 09 03 c0 mov ecx,0xc00309e2

c0027737: 84 c0 test al,al

c0027739: 0f 84 1f 01 00 00 je c002785e <ustar\_parse\_header+0x18

5>

c002773f: b8 6c ff ff ff mov eax,0xffffff6c

c0027744: ba 00 00 00 00 mov edx,0x0

c0027749: 83 f8 07 cmp eax,0x7

c002774c: 76 0a jbe c0027758 <ustar\_parse\_header+0x7f

>

c002774e: 0f b6 8c 03 94 00 00 movzx ecx,BYTE PTR [ebx+eax\*1+0x94]

c0027755: 00

c0027756: eb 05 jmp c002775d <ustar\_parse\_header+0x84

>

c0027758: b9 20 00 00 00 mov ecx,0x20

c002775d: 01 ca add edx,ecx

c002775f: 83 c0 01 add eax,0x1

c0027762: 3d 6c 01 00 00 cmp eax,0x16c

c0027767: 75 e0 jne c0027749 <ustar\_parse\_header+0x70

>

c0027769: b9 f7 09 03 c0 mov ecx,0xc00309f7

c002776e: 39 54 24 0c cmp DWORD PTR [esp+0xc],edx

c0027772: 0f 85 e6 00 00 00 jne c002785e <ustar\_parse\_header+0x18

5>

c0027778: b9 09 0a 03 c0 mov ecx,0xc0030a09

c002777d: 80 7b 63 00 cmp BYTE PTR [ebx+0x63],0x0

c0027781: 0f 85 d7 00 00 00 jne c002785e <ustar\_parse\_header+0x18

5>

c0027787: 80 bb 59 01 00 00 00 cmp BYTE PTR [ebx+0x159],0x0

c002778e: 0f 85 ca 00 00 00 jne c002785e <ustar\_parse\_header+0x18

5>

c0027794: 0f b6 83 9c 00 00 00 movzx eax,BYTE PTR [ebx+0x9c]

c002779b: 3c 30 cmp al,0x30

c002779d: 74 0d je c00277ac <ustar\_parse\_header+0xd3

>

c002779f: b9 1c 0a 03 c0 mov ecx,0xc0030a1c

c00277a4: 3c 35 cmp al,0x35

c00277a6: 0f 85 b2 00 00 00 jne c002785e <ustar\_parse\_header+0x18

5>

c00277ac: 3c 30 cmp al,0x30

c00277ae: 75 30 jne c00277e0 <ustar\_parse\_header+0x10

7>

c00277b0: 8d 43 7c lea eax,[ebx+0x7c]

c00277b3: 8d 4c 24 08 lea ecx,[esp+0x8]

c00277b7: ba 0c 00 00 00 mov edx,0xc

c00277bc: e8 42 fc ff ff call c0027403 <parse\_octal\_field>

c00277c1: b9 34 0a 03 c0 mov ecx,0xc0030a34

c00277c6: 84 c0 test al,al

c00277c8: 0f 84 90 00 00 00 je c002785e <ustar\_parse\_header+0x18

5>

c00277ce: b9 4c 0a 03 c0 mov ecx,0xc0030a4c

c00277d3: 83 7c 24 08 00 cmp DWORD PTR [esp+0x8],0x0

c00277d8: 0f 88 80 00 00 00 js c002785e <ustar\_parse\_header+0x18

5>

c00277de: eb 08 jmp c00277e8 <ustar\_parse\_header+0x10

f>

c00277e0: c7 44 24 08 00 00 00 mov DWORD PTR [esp+0x8],0x0

c00277e7: 00

c00277e8: 89 d8 mov eax,ebx

c00277ea: e8 97 fc ff ff call c0027486 <strip\_antisocial\_prefix

es>

c00277ef: 8b 4c 24 24 mov ecx,DWORD PTR [esp+0x24]

c00277f3: 89 01 mov DWORD PTR [ecx],eax

c00277f5: 0f be 83 9c 00 00 00 movsx eax,BYTE PTR [ebx+0x9c]

c00277fc: 8b 5c 24 28 mov ebx,DWORD PTR [esp+0x28]

c0027800: 89 03 mov DWORD PTR [ebx],eax

c0027802: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c0027806: 8b 5c 24 2c mov ebx,DWORD PTR [esp+0x2c]

c002780a: 89 03 mov DWORD PTR [ebx],eax

c002780c: b9 00 00 00 00 mov ecx,0x0

c0027811: eb 4b jmp c002785e <ustar\_parse\_header+0x18

5>

c0027813: 83 ec 04 sub esp,0x4

c0027816: 6a 06 push 0x6

c0027818: 68 b2 09 03 c0 push 0xc00309b2

c002781d: 8d 83 01 01 00 00 lea eax,[ebx+0x101]

c0027823: 50 push eax

c0027824: e8 03 f3 ff ff call c0026b2c <memcmp>

c0027829: 83 c4 10 add esp,0x10

c002782c: b9 b8 09 03 c0 mov ecx,0xc00309b8

c0027831: 85 c0 test eax,eax

c0027833: 0f 84 c6 fe ff ff je c00276ff <ustar\_parse\_header+0x26

>

c0027839: eb 23 jmp c002785e <ustar\_parse\_header+0x18

5>

c002783b: 8b 44 24 24 mov eax,DWORD PTR [esp+0x24]

c002783f: c7 00 00 00 00 00 mov DWORD PTR [eax],0x0

c0027845: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0027849: c7 00 ff ff ff ff mov DWORD PTR [eax],0xffffffff

c002784f: 8b 44 24 2c mov eax,DWORD PTR [esp+0x2c]

c0027853: c7 00 00 00 00 00 mov DWORD PTR [eax],0x0

c0027859: b9 00 00 00 00 mov ecx,0x0

c002785e: 89 c8 mov eax,ecx

c0027860: 83 c4 18 add esp,0x18

c0027863: 5b pop ebx

c0027864: c3 ret

c0027865 <print\_stacktrace>:

c0027865: 55 push ebp

c0027866: 89 e5 mov ebp,esp

c0027868: 53 push ebx

c0027869: 83 ec 04 sub esp,0x4

c002786c: 8b 5d 08 mov ebx,DWORD PTR [ebp+0x8]

c002786f: 8b 53 04 mov edx,DWORD PTR [ebx+0x4]

c0027872: b8 8d 0a 03 c0 mov eax,0xc0030a8d

c0027877: 83 fa 01 cmp edx,0x1

c002787a: 74 1a je c0027896 <print\_stacktrace+0x31>

c002787c: b8 a8 f4 02 c0 mov eax,0xc002f4a8

c0027881: 83 fa 01 cmp edx,0x1

c0027884: 72 10 jb c0027896 <print\_stacktrace+0x31>

c0027886: 83 fa 02 cmp edx,0x2

c0027889: ba 93 0a 03 c0 mov edx,0xc0030a93

c002788e: b8 fb f3 02 c0 mov eax,0xc002f3fb

c0027893: 0f 45 c2 cmovne eax,edx

c0027896: 83 ec 04 sub esp,0x4

c0027899: 50 push eax

c002789a: 8d 43 08 lea eax,[ebx+0x8]

c002789d: 50 push eax

c002789e: 68 b8 0a 03 c0 push 0xc0030ab8

c00278a3: e8 1d e4 ff ff call c0025cc5 <printf>

c00278a8: e8 3e 93 ff ff call c0020beb <thread\_current>

c00278ad: 83 c4 10 add esp,0x10

c00278b0: 39 c3 cmp ebx,eax

c00278b2: 75 08 jne c00278bc <print\_stacktrace+0x57>

c00278b4: 8b 5d 00 mov ebx,DWORD PTR [ebp+0x0]

c00278b7: 8b 45 04 mov eax,DWORD PTR [ebp+0x4]

c00278ba: eb 2c jmp c00278e8 <print\_stacktrace+0x83>

c00278bc: 8b 53 18 mov edx,DWORD PTR [ebx+0x18]

c00278bf: 81 c3 00 10 00 00 add ebx,0x1000

c00278c5: 39 da cmp edx,ebx

c00278c7: 74 0a je c00278d3 <print\_stacktrace+0x6e>

c00278c9: 8b 42 10 mov eax,DWORD PTR [edx+0x10]

c00278cc: 3d 13 13 02 c0 cmp eax,0xc0021313

c00278d1: 75 12 jne c00278e5 <print\_stacktrace+0x80>

c00278d3: 83 ec 0c sub esp,0xc

c00278d6: 68 9b 0a 03 c0 push 0xc0030a9b

c00278db: e8 70 1b 00 00 call c0029450 <puts>

c00278e0: 83 c4 10 add esp,0x10

c00278e3: eb 53 jmp c0027938 <print\_stacktrace+0xd3>

c00278e5: 8b 5a 08 mov ebx,DWORD PTR [edx+0x8]

c00278e8: 83 ec 08 sub esp,0x8

c00278eb: 50 push eax

c00278ec: 68 f8 06 03 c0 push 0xc00306f8

c00278f1: e8 cf e3 ff ff call c0025cc5 <printf>

c00278f6: 83 c4 10 add esp,0x10

c00278f9: 81 fb ff 0f 00 00 cmp ebx,0xfff

c00278ff: 76 27 jbe c0027928 <print\_stacktrace+0xc3>

c0027901: 83 3b 00 cmp DWORD PTR [ebx],0x0

c0027904: 74 22 je c0027928 <print\_stacktrace+0xc3>

c0027906: 83 ec 08 sub esp,0x8

c0027909: ff 73 04 push DWORD PTR [ebx+0x4]

c002790c: 68 f8 06 03 c0 push 0xc00306f8

c0027911: e8 af e3 ff ff call c0025cc5 <printf>

c0027916: 8b 1b mov ebx,DWORD PTR [ebx]

c0027918: 83 c4 10 add esp,0x10

c002791b: 81 fb ff 0f 00 00 cmp ebx,0xfff

c0027921: 76 05 jbe c0027928 <print\_stacktrace+0xc3>

c0027923: 83 3b 00 cmp DWORD PTR [ebx],0x0

c0027926: 75 de jne c0027906 <print\_stacktrace+0xa1>

c0027928: 83 ec 0c sub esp,0xc

c002792b: 68 8f 02 03 c0 push 0xc003028f

c0027930: e8 1b 1b 00 00 call c0029450 <puts>

c0027935: 83 c4 10 add esp,0x10

c0027938: 8b 5d fc mov ebx,DWORD PTR [ebp-0x4]

c002793b: c9 leave

c002793c: c3 ret

c002793d <debug\_panic>:

c002793d: 57 push edi

c002793e: 56 push esi

c002793f: 53 push ebx

c0027940: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0027944: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0027948: 8b 7c 24 18 mov edi,DWORD PTR [esp+0x18]

c002794c: e8 31 9b ff ff call c0021482 <intr\_disable>

c0027951: e8 a1 1a 00 00 call c00293f7 <console\_panic>

c0027956: a1 20 b7 03 c0 mov eax,ds:0xc003b720

c002795b: 83 c0 01 add eax,0x1

c002795e: a3 20 b7 03 c0 mov ds:0xc003b720,eax

c0027963: 83 f8 01 cmp eax,0x1

c0027966: 75 34 jne c002799c <debug\_panic+0x5f>

c0027968: 57 push edi

c0027969: 56 push esi

c002796a: 53 push ebx

c002796b: 68 e0 0a 03 c0 push 0xc0030ae0

c0027970: e8 50 e3 ff ff call c0025cc5 <printf>

c0027975: 8d 44 24 30 lea eax,[esp+0x30]

c0027979: 83 c4 08 add esp,0x8

c002797c: 50 push eax

c002797d: ff 74 24 28 push DWORD PTR [esp+0x28]

c0027981: e8 96 1a 00 00 call c002941c <vprintf>

c0027986: c7 04 24 0a 00 00 00 mov DWORD PTR [esp],0xa

c002798d: e8 2f 1b 00 00 call c00294c1 <putchar>

c0027992: e8 99 dd ff ff call c0025730 <debug\_backtrace>

c0027997: 83 c4 10 add esp,0x10

c002799a: eb 15 jmp c00279b1 <debug\_panic+0x74>

c002799c: 83 f8 02 cmp eax,0x2

c002799f: 75 10 jne c00279b1 <debug\_panic+0x74>

c00279a1: 57 push edi

c00279a2: 56 push esi

c00279a3: 53 push ebx

c00279a4: 68 00 0b 03 c0 push 0xc0030b00

c00279a9: e8 17 e3 ff ff call c0025cc5 <printf>

c00279ae: 83 c4 10 add esp,0x10

c00279b1: e8 22 c6 ff ff call c0023fd8 <serial\_flush>

c00279b6: e8 ba dc ff ff call c0025675 <shutdown>

c00279bb: eb fe jmp c00279bb <debug\_panic+0x7e>

c00279bd <debug\_backtrace\_all>:

c00279bd: 53 push ebx

c00279be: 83 ec 08 sub esp,0x8

c00279c1: e8 bc 9a ff ff call c0021482 <intr\_disable>

c00279c6: 89 c3 mov ebx,eax

c00279c8: 83 ec 08 sub esp,0x8

c00279cb: 6a 00 push 0x0

c00279cd: 68 65 78 02 c0 push 0xc0027865

c00279d2: e8 8d 94 ff ff call c0020e64 <thread\_foreach>

c00279d7: 89 1c 24 mov DWORD PTR [esp],ebx

c00279da: e8 aa 9a ff ff call c0021489 <intr\_set\_level>

c00279df: 83 c4 18 add esp,0x18

c00279e2: 5b pop ebx

c00279e3: c3 ret

c00279e4 <list\_init>:

c00279e4: 83 ec 0c sub esp,0xc

c00279e7: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00279eb: 85 c0 test eax,eax

c00279ed: 75 1e jne c0027a0d <list\_init+0x29>

c00279ef: 83 ec 0c sub esp,0xc

c00279f2: 68 2a 0b 03 c0 push 0xc0030b2a

c00279f7: 68 83 ed 02 c0 push 0xc002ed83

c00279fc: 68 58 e9 02 c0 push 0xc002e958

c0027a01: 6a 3f push 0x3f

c0027a03: 68 37 0b 03 c0 push 0xc0030b37

c0027a08: e8 30 ff ff ff call c002793d <debug\_panic>

c0027a0d: c7 00 00 00 00 00 mov DWORD PTR [eax],0x0

c0027a13: 8d 50 08 lea edx,[eax+0x8]

c0027a16: 89 50 04 mov DWORD PTR [eax+0x4],edx

c0027a19: 89 40 08 mov DWORD PTR [eax+0x8],eax

c0027a1c: c7 40 0c 00 00 00 00 mov DWORD PTR [eax+0xc],0x0

c0027a23: 83 c4 0c add esp,0xc

c0027a26: c3 ret

c0027a27 <list\_begin>:

c0027a27: 83 ec 0c sub esp,0xc

c0027a2a: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027a2e: 85 c0 test eax,eax

c0027a30: 75 1e jne c0027a50 <list\_begin+0x29>

c0027a32: 83 ec 0c sub esp,0xc

c0027a35: 68 2a 0b 03 c0 push 0xc0030b2a

c0027a3a: 68 83 ed 02 c0 push 0xc002ed83

c0027a3f: 68 4c e9 02 c0 push 0xc002e94c

c0027a44: 6a 4a push 0x4a

c0027a46: 68 37 0b 03 c0 push 0xc0030b37

c0027a4b: e8 ed fe ff ff call c002793d <debug\_panic>

c0027a50: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c0027a53: 83 c4 0c add esp,0xc

c0027a56: c3 ret

c0027a57 <list\_next>:

c0027a57: 83 ec 0c sub esp,0xc

c0027a5a: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027a5e: 85 c0 test eax,eax

c0027a60: 74 16 je c0027a78 <list\_next+0x21>

c0027a62: 83 38 00 cmp DWORD PTR [eax],0x0

c0027a65: 75 06 jne c0027a6d <list\_next+0x16>

c0027a67: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0027a6b: 75 29 jne c0027a96 <list\_next+0x3f>

c0027a6d: 83 38 00 cmp DWORD PTR [eax],0x0

c0027a70: 74 06 je c0027a78 <list\_next+0x21>

c0027a72: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0027a76: 75 1e jne c0027a96 <list\_next+0x3f>

c0027a78: 83 ec 0c sub esp,0xc

c0027a7b: 68 e0 0b 03 c0 push 0xc0030be0

c0027a80: 68 83 ed 02 c0 push 0xc002ed83

c0027a85: 68 40 e9 02 c0 push 0xc002e940

c0027a8a: 6a 54 push 0x54

c0027a8c: 68 37 0b 03 c0 push 0xc0030b37

c0027a91: e8 a7 fe ff ff call c002793d <debug\_panic>

c0027a96: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c0027a99: 83 c4 0c add esp,0xc

c0027a9c: c3 ret

c0027a9d <list\_end>:

c0027a9d: 83 ec 0c sub esp,0xc

c0027aa0: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027aa4: 85 c0 test eax,eax

c0027aa6: 75 1e jne c0027ac6 <list\_end+0x29>

c0027aa8: 83 ec 0c sub esp,0xc

c0027aab: 68 2a 0b 03 c0 push 0xc0030b2a

c0027ab0: 68 83 ed 02 c0 push 0xc002ed83

c0027ab5: 68 34 e9 02 c0 push 0xc002e934

c0027aba: 6a 60 push 0x60

c0027abc: 68 37 0b 03 c0 push 0xc0030b37

c0027ac1: e8 77 fe ff ff call c002793d <debug\_panic>

c0027ac6: 83 c0 08 add eax,0x8

c0027ac9: 83 c4 0c add esp,0xc

c0027acc: c3 ret

c0027acd <list\_rbegin>:

c0027acd: 83 ec 0c sub esp,0xc

c0027ad0: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027ad4: 85 c0 test eax,eax

c0027ad6: 75 1e jne c0027af6 <list\_rbegin+0x29>

c0027ad8: 83 ec 0c sub esp,0xc

c0027adb: 68 2a 0b 03 c0 push 0xc0030b2a

c0027ae0: 68 83 ed 02 c0 push 0xc002ed83

c0027ae5: 68 28 e9 02 c0 push 0xc002e928

c0027aea: 6a 69 push 0x69

c0027aec: 68 37 0b 03 c0 push 0xc0030b37

c0027af1: e8 47 fe ff ff call c002793d <debug\_panic>

c0027af6: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c0027af9: 83 c4 0c add esp,0xc

c0027afc: c3 ret

c0027afd <list\_prev>:

c0027afd: 83 ec 0c sub esp,0xc

c0027b00: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027b04: 85 c0 test eax,eax

c0027b06: 74 16 je c0027b1e <list\_prev+0x21>

c0027b08: 83 38 00 cmp DWORD PTR [eax],0x0

c0027b0b: 74 06 je c0027b13 <list\_prev+0x16>

c0027b0d: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0027b11: 75 29 jne c0027b3c <list\_prev+0x3f>

c0027b13: 83 38 00 cmp DWORD PTR [eax],0x0

c0027b16: 74 06 je c0027b1e <list\_prev+0x21>

c0027b18: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0027b1c: 74 1e je c0027b3c <list\_prev+0x3f>

c0027b1e: 83 ec 0c sub esp,0xc

c0027b21: 68 08 0c 03 c0 push 0xc0030c08

c0027b26: 68 83 ed 02 c0 push 0xc002ed83

c0027b2b: 68 1c e9 02 c0 push 0xc002e91c

c0027b30: 6a 73 push 0x73

c0027b32: 68 37 0b 03 c0 push 0xc0030b37

c0027b37: e8 01 fe ff ff call c002793d <debug\_panic>

c0027b3c: 8b 00 mov eax,DWORD PTR [eax]

c0027b3e: 83 c4 0c add esp,0xc

c0027b41: c3 ret

c0027b42 <find\_end\_of\_run>:

c0027b42: 55 push ebp

c0027b43: 57 push edi

c0027b44: 56 push esi

c0027b45: 53 push ebx

c0027b46: 83 ec 0c sub esp,0xc

c0027b49: 8b 6c 24 20 mov ebp,DWORD PTR [esp+0x20]

c0027b4d: 85 c0 test eax,eax

c0027b4f: 75 21 jne c0027b72 <find\_end\_of\_run+0x30>

c0027b51: 83 ec 0c sub esp,0xc

c0027b54: 68 31 f9 02 c0 push 0xc002f931

c0027b59: 68 83 ed 02 c0 push 0xc002ed83

c0027b5e: 68 a0 e8 02 c0 push 0xc002e8a0

c0027b63: 68 69 01 00 00 push 0x169

c0027b68: 68 37 0b 03 c0 push 0xc0030b37

c0027b6d: e8 cb fd ff ff call c002793d <debug\_panic>

c0027b72: 89 c3 mov ebx,eax

c0027b74: 89 d6 mov esi,edx

c0027b76: 89 cf mov edi,ecx

c0027b78: 85 d2 test edx,edx

c0027b7a: 75 21 jne c0027b9d <find\_end\_of\_run+0x5b>

c0027b7c: 83 ec 0c sub esp,0xc

c0027b7f: 68 01 09 03 c0 push 0xc0030901

c0027b84: 68 83 ed 02 c0 push 0xc002ed83

c0027b89: 68 a0 e8 02 c0 push 0xc002e8a0

c0027b8e: 68 6a 01 00 00 push 0x16a

c0027b93: 68 37 0b 03 c0 push 0xc0030b37

c0027b98: e8 a0 fd ff ff call c002793d <debug\_panic>

c0027b9d: 85 c9 test ecx,ecx

c0027b9f: 75 21 jne c0027bc2 <find\_end\_of\_run+0x80>

c0027ba1: 83 ec 0c sub esp,0xc

c0027ba4: 68 4f 0b 03 c0 push 0xc0030b4f

c0027ba9: 68 83 ed 02 c0 push 0xc002ed83

c0027bae: 68 a0 e8 02 c0 push 0xc002e8a0

c0027bb3: 68 6b 01 00 00 push 0x16b

c0027bb8: 68 37 0b 03 c0 push 0xc0030b37

c0027bbd: e8 7b fd ff ff call c002793d <debug\_panic>

c0027bc2: 39 d0 cmp eax,edx

c0027bc4: 75 21 jne c0027be7 <find\_end\_of\_run+0xa5>

c0027bc6: 83 ec 0c sub esp,0xc

c0027bc9: 68 5c 0b 03 c0 push 0xc0030b5c

c0027bce: 68 83 ed 02 c0 push 0xc002ed83

c0027bd3: 68 a0 e8 02 c0 push 0xc002e8a0

c0027bd8: 68 6c 01 00 00 push 0x16c

c0027bdd: 68 37 0b 03 c0 push 0xc0030b37

c0027be2: e8 56 fd ff ff call c002793d <debug\_panic>

c0027be7: 83 ec 0c sub esp,0xc

c0027bea: 53 push ebx

c0027beb: e8 67 fe ff ff call c0027a57 <list\_next>

c0027bf0: 83 c4 10 add esp,0x10

c0027bf3: 89 c3 mov ebx,eax

c0027bf5: 39 c6 cmp esi,eax

c0027bf7: 74 18 je c0027c11 <find\_end\_of\_run+0xcf>

c0027bf9: 83 ec 0c sub esp,0xc

c0027bfc: 50 push eax

c0027bfd: e8 fb fe ff ff call c0027afd <list\_prev>

c0027c02: 83 c4 0c add esp,0xc

c0027c05: 55 push ebp

c0027c06: 50 push eax

c0027c07: 53 push ebx

c0027c08: ff d7 call edi

c0027c0a: 83 c4 10 add esp,0x10

c0027c0d: 84 c0 test al,al

c0027c0f: 74 d6 je c0027be7 <find\_end\_of\_run+0xa5>

c0027c11: 89 d8 mov eax,ebx

c0027c13: 83 c4 0c add esp,0xc

c0027c16: 5b pop ebx

c0027c17: 5e pop esi

c0027c18: 5f pop edi

c0027c19: 5d pop ebp

c0027c1a: c3 ret

c0027c1b <is\_sorted>:

c0027c1b: 55 push ebp

c0027c1c: 57 push edi

c0027c1d: 56 push esi

c0027c1e: 53 push ebx

c0027c1f: 83 ec 0c sub esp,0xc

c0027c22: 89 c3 mov ebx,eax

c0027c24: 89 d6 mov esi,edx

c0027c26: 89 cd mov ebp,ecx

c0027c28: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c0027c2c: 39 d0 cmp eax,edx

c0027c2e: 75 1f jne c0027c4f <is\_sorted+0x34>

c0027c30: b8 01 00 00 00 mov eax,0x1

c0027c35: eb 36 jmp c0027c6d <is\_sorted+0x52>

c0027c37: 83 ec 0c sub esp,0xc

c0027c3a: 53 push ebx

c0027c3b: e8 bd fe ff ff call c0027afd <list\_prev>

c0027c40: 83 c4 0c add esp,0xc

c0027c43: 57 push edi

c0027c44: 50 push eax

c0027c45: 53 push ebx

c0027c46: ff d5 call ebp

c0027c48: 83 c4 10 add esp,0x10

c0027c4b: 84 c0 test al,al

c0027c4d: 75 19 jne c0027c68 <is\_sorted+0x4d>

c0027c4f: 83 ec 0c sub esp,0xc

c0027c52: 53 push ebx

c0027c53: e8 ff fd ff ff call c0027a57 <list\_next>

c0027c58: 83 c4 10 add esp,0x10

c0027c5b: 89 c3 mov ebx,eax

c0027c5d: 39 c6 cmp esi,eax

c0027c5f: 75 d6 jne c0027c37 <is\_sorted+0x1c>

c0027c61: b8 01 00 00 00 mov eax,0x1

c0027c66: eb 05 jmp c0027c6d <is\_sorted+0x52>

c0027c68: b8 00 00 00 00 mov eax,0x0

c0027c6d: 83 c4 0c add esp,0xc

c0027c70: 5b pop ebx

c0027c71: 5e pop esi

c0027c72: 5f pop edi

c0027c73: 5d pop ebp

c0027c74: c3 ret

c0027c75 <list\_rend>:

c0027c75: 83 ec 0c sub esp,0xc

c0027c78: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027c7c: 85 c0 test eax,eax

c0027c7e: 75 21 jne c0027ca1 <list\_rend+0x2c>

c0027c80: 83 ec 0c sub esp,0xc

c0027c83: 68 2a 0b 03 c0 push 0xc0030b2a

c0027c88: 68 83 ed 02 c0 push 0xc002ed83

c0027c8d: 68 10 e9 02 c0 push 0xc002e910

c0027c92: 68 87 00 00 00 push 0x87

c0027c97: 68 37 0b 03 c0 push 0xc0030b37

c0027c9c: e8 9c fc ff ff call c002793d <debug\_panic>

c0027ca1: 83 c4 0c add esp,0xc

c0027ca4: c3 ret

c0027ca5 <list\_head>:

c0027ca5: 83 ec 0c sub esp,0xc

c0027ca8: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027cac: 85 c0 test eax,eax

c0027cae: 75 21 jne c0027cd1 <list\_head+0x2c>

c0027cb0: 83 ec 0c sub esp,0xc

c0027cb3: 68 2a 0b 03 c0 push 0xc0030b2a

c0027cb8: 68 83 ed 02 c0 push 0xc002ed83

c0027cbd: 68 04 e9 02 c0 push 0xc002e904

c0027cc2: 68 99 00 00 00 push 0x99

c0027cc7: 68 37 0b 03 c0 push 0xc0030b37

c0027ccc: e8 6c fc ff ff call c002793d <debug\_panic>

c0027cd1: 83 c4 0c add esp,0xc

c0027cd4: c3 ret

c0027cd5 <list\_tail>:

c0027cd5: 83 ec 0c sub esp,0xc

c0027cd8: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027cdc: 85 c0 test eax,eax

c0027cde: 75 21 jne c0027d01 <list\_tail+0x2c>

c0027ce0: 83 ec 0c sub esp,0xc

c0027ce3: 68 2a 0b 03 c0 push 0xc0030b2a

c0027ce8: 68 83 ed 02 c0 push 0xc002ed83

c0027ced: 68 f8 e8 02 c0 push 0xc002e8f8

c0027cf2: 68 a1 00 00 00 push 0xa1

c0027cf7: 68 37 0b 03 c0 push 0xc0030b37

c0027cfc: e8 3c fc ff ff call c002793d <debug\_panic>

c0027d01: 83 c0 08 add eax,0x8

c0027d04: 83 c4 0c add esp,0xc

c0027d07: c3 ret

c0027d08 <list\_insert>:

c0027d08: 83 ec 0c sub esp,0xc

c0027d0b: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027d0f: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c0027d13: 85 c0 test eax,eax

c0027d15: 74 4b je c0027d62 <list\_insert+0x5a>

c0027d17: 83 38 00 cmp DWORD PTR [eax],0x0

c0027d1a: 74 06 je c0027d22 <list\_insert+0x1a>

c0027d1c: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0027d20: 75 0b jne c0027d2d <list\_insert+0x25>

c0027d22: 83 38 00 cmp DWORD PTR [eax],0x0

c0027d25: 74 3b je c0027d62 <list\_insert+0x5a>

c0027d27: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c0027d2b: 75 35 jne c0027d62 <list\_insert+0x5a>

c0027d2d: 85 d2 test edx,edx

c0027d2f: 75 21 jne c0027d52 <list\_insert+0x4a>

c0027d31: 83 ec 0c sub esp,0xc

c0027d34: 68 63 0b 03 c0 push 0xc0030b63

c0027d39: 68 83 ed 02 c0 push 0xc002ed83

c0027d3e: 68 ec e8 02 c0 push 0xc002e8ec

c0027d43: 68 ac 00 00 00 push 0xac

c0027d48: 68 37 0b 03 c0 push 0xc0030b37

c0027d4d: e8 eb fb ff ff call c002793d <debug\_panic>

c0027d52: 8b 08 mov ecx,DWORD PTR [eax]

c0027d54: 89 0a mov DWORD PTR [edx],ecx

c0027d56: 89 42 04 mov DWORD PTR [edx+0x4],eax

c0027d59: 8b 08 mov ecx,DWORD PTR [eax]

c0027d5b: 89 51 04 mov DWORD PTR [ecx+0x4],edx

c0027d5e: 89 10 mov DWORD PTR [eax],edx

c0027d60: eb 21 jmp c0027d83 <list\_insert+0x7b>

c0027d62: 83 ec 0c sub esp,0xc

c0027d65: 68 30 0c 03 c0 push 0xc0030c30

c0027d6a: 68 83 ed 02 c0 push 0xc002ed83

c0027d6f: 68 ec e8 02 c0 push 0xc002e8ec

c0027d74: 68 ab 00 00 00 push 0xab

c0027d79: 68 37 0b 03 c0 push 0xc0030b37

c0027d7e: e8 ba fb ff ff call c002793d <debug\_panic>

c0027d83: 83 c4 0c add esp,0xc

c0027d86: c3 ret

c0027d87 <list\_splice>:

c0027d87: 56 push esi

c0027d88: 53 push ebx

c0027d89: 83 ec 04 sub esp,0x4

c0027d8c: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0027d90: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0027d94: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c0027d98: 85 db test ebx,ebx

c0027d9a: 74 4a je c0027de6 <list\_splice+0x5f>

c0027d9c: 83 3b 00 cmp DWORD PTR [ebx],0x0

c0027d9f: 74 06 je c0027da7 <list\_splice+0x20>

c0027da1: 83 7b 04 00 cmp DWORD PTR [ebx+0x4],0x0

c0027da5: 75 0b jne c0027db2 <list\_splice+0x2b>

c0027da7: 83 3b 00 cmp DWORD PTR [ebx],0x0

c0027daa: 74 3a je c0027de6 <list\_splice+0x5f>

c0027dac: 83 7b 04 00 cmp DWORD PTR [ebx+0x4],0x0

c0027db0: 75 34 jne c0027de6 <list\_splice+0x5f>

c0027db2: 39 c6 cmp esi,eax

c0027db4: 0f 84 ab 00 00 00 je c0027e65 <list\_splice+0xde>

c0027dba: 83 ec 0c sub esp,0xc

c0027dbd: 50 push eax

c0027dbe: e8 3a fd ff ff call c0027afd <list\_prev>

c0027dc3: 83 c4 10 add esp,0x10

c0027dc6: 85 f6 test esi,esi

c0027dc8: 74 3d je c0027e07 <list\_splice+0x80>

c0027dca: 8b 16 mov edx,DWORD PTR [esi]

c0027dcc: 85 d2 test edx,edx

c0027dce: 74 37 je c0027e07 <list\_splice+0x80>

c0027dd0: 83 7e 04 00 cmp DWORD PTR [esi+0x4],0x0

c0027dd4: 75 52 jne c0027e28 <list\_splice+0xa1>

c0027dd6: eb 2f jmp c0027e07 <list\_splice+0x80>

c0027dd8: 83 38 00 cmp DWORD PTR [eax],0x0

c0027ddb: 74 4f je c0027e2c <list\_splice+0xa5>

c0027ddd: 8b 48 04 mov ecx,DWORD PTR [eax+0x4]

c0027de0: 85 c9 test ecx,ecx

c0027de2: 75 69 jne c0027e4d <list\_splice+0xc6>

c0027de4: eb 46 jmp c0027e2c <list\_splice+0xa5>

c0027de6: 83 ec 0c sub esp,0xc

c0027de9: 68 30 0c 03 c0 push 0xc0030c30

c0027dee: 68 83 ed 02 c0 push 0xc002ed83

c0027df3: 68 e0 e8 02 c0 push 0xc002e8e0

c0027df8: 68 bb 00 00 00 push 0xbb

c0027dfd: 68 37 0b 03 c0 push 0xc0030b37

c0027e02: e8 36 fb ff ff call c002793d <debug\_panic>

c0027e07: 83 ec 0c sub esp,0xc

c0027e0a: 68 70 0b 03 c0 push 0xc0030b70

c0027e0f: 68 83 ed 02 c0 push 0xc002ed83

c0027e14: 68 e0 e8 02 c0 push 0xc002e8e0

c0027e19: 68 c0 00 00 00 push 0xc0

c0027e1e: 68 37 0b 03 c0 push 0xc0030b37

c0027e23: e8 15 fb ff ff call c002793d <debug\_panic>

c0027e28: 85 c0 test eax,eax

c0027e2a: 75 ac jne c0027dd8 <list\_splice+0x51>

c0027e2c: 83 ec 0c sub esp,0xc

c0027e2f: 68 84 0b 03 c0 push 0xc0030b84

c0027e34: 68 83 ed 02 c0 push 0xc002ed83

c0027e39: 68 e0 e8 02 c0 push 0xc002e8e0

c0027e3e: 68 c1 00 00 00 push 0xc1

c0027e43: 68 37 0b 03 c0 push 0xc0030b37

c0027e48: e8 f0 fa ff ff call c002793d <debug\_panic>

c0027e4d: 89 4a 04 mov DWORD PTR [edx+0x4],ecx

c0027e50: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c0027e53: 8b 0e mov ecx,DWORD PTR [esi]

c0027e55: 89 0a mov DWORD PTR [edx],ecx

c0027e57: 8b 13 mov edx,DWORD PTR [ebx]

c0027e59: 89 16 mov DWORD PTR [esi],edx

c0027e5b: 89 58 04 mov DWORD PTR [eax+0x4],ebx

c0027e5e: 8b 13 mov edx,DWORD PTR [ebx]

c0027e60: 89 72 04 mov DWORD PTR [edx+0x4],esi

c0027e63: 89 03 mov DWORD PTR [ebx],eax

c0027e65: 83 c4 04 add esp,0x4

c0027e68: 5b pop ebx

c0027e69: 5e pop esi

c0027e6a: c3 ret

c0027e6b <list\_push\_front>:

c0027e6b: 83 ec 18 sub esp,0x18

c0027e6e: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0027e72: e8 b0 fb ff ff call c0027a27 <list\_begin>

c0027e77: 83 c4 08 add esp,0x8

c0027e7a: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0027e7e: 50 push eax

c0027e7f: e8 84 fe ff ff call c0027d08 <list\_insert>

c0027e84: 83 c4 1c add esp,0x1c

c0027e87: c3 ret

c0027e88 <list\_push\_back>:

c0027e88: 83 ec 18 sub esp,0x18

c0027e8b: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0027e8f: e8 09 fc ff ff call c0027a9d <list\_end>

c0027e94: 83 c4 08 add esp,0x8

c0027e97: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0027e9b: 50 push eax

c0027e9c: e8 67 fe ff ff call c0027d08 <list\_insert>

c0027ea1: 83 c4 1c add esp,0x1c

c0027ea4: c3 ret

c0027ea5 <list\_remove>:

c0027ea5: 83 ec 0c sub esp,0xc

c0027ea8: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0027eac: 85 c0 test eax,eax

c0027eae: 74 0d je c0027ebd <list\_remove+0x18>

c0027eb0: 8b 10 mov edx,DWORD PTR [eax]

c0027eb2: 85 d2 test edx,edx

c0027eb4: 74 07 je c0027ebd <list\_remove+0x18>

c0027eb6: 8b 48 04 mov ecx,DWORD PTR [eax+0x4]

c0027eb9: 85 c9 test ecx,ecx

c0027ebb: 75 21 jne c0027ede <list\_remove+0x39>

c0027ebd: 83 ec 0c sub esp,0xc

c0027ec0: 68 97 0b 03 c0 push 0xc0030b97

c0027ec5: 68 83 ed 02 c0 push 0xc002ed83

c0027eca: 68 d4 e8 02 c0 push 0xc002e8d4

c0027ecf: 68 fb 00 00 00 push 0xfb

c0027ed4: 68 37 0b 03 c0 push 0xc0030b37

c0027ed9: e8 5f fa ff ff call c002793d <debug\_panic>

c0027ede: 89 4a 04 mov DWORD PTR [edx+0x4],ecx

c0027ee1: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c0027ee4: 8b 08 mov ecx,DWORD PTR [eax]

c0027ee6: 89 0a mov DWORD PTR [edx],ecx

c0027ee8: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c0027eeb: 83 c4 0c add esp,0xc

c0027eee: c3 ret

c0027eef <list\_size>:

c0027eef: 57 push edi

c0027ef0: 56 push esi

c0027ef1: 53 push ebx

c0027ef2: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c0027ef6: 83 ec 0c sub esp,0xc

c0027ef9: 57 push edi

c0027efa: e8 28 fb ff ff call c0027a27 <list\_begin>

c0027eff: 83 c4 10 add esp,0x10

c0027f02: 89 c3 mov ebx,eax

c0027f04: be 00 00 00 00 mov esi,0x0

c0027f09: eb 11 jmp c0027f1c <list\_size+0x2d>

c0027f0b: 83 c6 01 add esi,0x1

c0027f0e: 83 ec 0c sub esp,0xc

c0027f11: 53 push ebx

c0027f12: e8 40 fb ff ff call c0027a57 <list\_next>

c0027f17: 83 c4 10 add esp,0x10

c0027f1a: 89 c3 mov ebx,eax

c0027f1c: 83 ec 0c sub esp,0xc

c0027f1f: 57 push edi

c0027f20: e8 78 fb ff ff call c0027a9d <list\_end>

c0027f25: 83 c4 10 add esp,0x10

c0027f28: 39 c3 cmp ebx,eax

c0027f2a: 75 df jne c0027f0b <list\_size+0x1c>

c0027f2c: 89 f0 mov eax,esi

c0027f2e: 5b pop ebx

c0027f2f: 5e pop esi

c0027f30: 5f pop edi

c0027f31: c3 ret

c0027f32 <list\_empty>:

c0027f32: 56 push esi

c0027f33: 53 push ebx

c0027f34: 83 ec 10 sub esp,0x10

c0027f37: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c0027f3b: 53 push ebx

c0027f3c: e8 e6 fa ff ff call c0027a27 <list\_begin>

c0027f41: 89 c6 mov esi,eax

c0027f43: 89 1c 24 mov DWORD PTR [esp],ebx

c0027f46: e8 52 fb ff ff call c0027a9d <list\_end>

c0027f4b: 39 c6 cmp esi,eax

c0027f4d: 0f 94 c0 sete al

c0027f50: 83 c4 14 add esp,0x14

c0027f53: 5b pop ebx

c0027f54: 5e pop esi

c0027f55: c3 ret

c0027f56 <list\_front>:

c0027f56: 53 push ebx

c0027f57: 83 ec 14 sub esp,0x14

c0027f5a: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c0027f5e: 53 push ebx

c0027f5f: e8 ce ff ff ff call c0027f32 <list\_empty>

c0027f64: 83 c4 10 add esp,0x10

c0027f67: 84 c0 test al,al

c0027f69: 74 21 je c0027f8c <list\_front+0x36>

c0027f6b: 83 ec 0c sub esp,0xc

c0027f6e: 68 aa 0b 03 c0 push 0xc0030baa

c0027f73: 68 83 ed 02 c0 push 0xc002ed83

c0027f78: 68 c8 e8 02 c0 push 0xc002e8c8

c0027f7d: 68 1a 01 00 00 push 0x11a

c0027f82: 68 37 0b 03 c0 push 0xc0030b37

c0027f87: e8 b1 f9 ff ff call c002793d <debug\_panic>

c0027f8c: 8b 43 04 mov eax,DWORD PTR [ebx+0x4]

c0027f8f: 83 c4 08 add esp,0x8

c0027f92: 5b pop ebx

c0027f93: c3 ret

c0027f94 <list\_pop\_front>:

c0027f94: 53 push ebx

c0027f95: 83 ec 14 sub esp,0x14

c0027f98: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0027f9c: e8 b5 ff ff ff call c0027f56 <list\_front>

c0027fa1: 89 c3 mov ebx,eax

c0027fa3: 89 04 24 mov DWORD PTR [esp],eax

c0027fa6: e8 fa fe ff ff call c0027ea5 <list\_remove>

c0027fab: 89 d8 mov eax,ebx

c0027fad: 83 c4 18 add esp,0x18

c0027fb0: 5b pop ebx

c0027fb1: c3 ret

c0027fb2 <list\_back>:

c0027fb2: 53 push ebx

c0027fb3: 83 ec 14 sub esp,0x14

c0027fb6: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c0027fba: 53 push ebx

c0027fbb: e8 72 ff ff ff call c0027f32 <list\_empty>

c0027fc0: 83 c4 10 add esp,0x10

c0027fc3: 84 c0 test al,al

c0027fc5: 74 21 je c0027fe8 <list\_back+0x36>

c0027fc7: 83 ec 0c sub esp,0xc

c0027fca: 68 aa 0b 03 c0 push 0xc0030baa

c0027fcf: 68 83 ed 02 c0 push 0xc002ed83

c0027fd4: 68 bc e8 02 c0 push 0xc002e8bc

c0027fd9: 68 23 01 00 00 push 0x123

c0027fde: 68 37 0b 03 c0 push 0xc0030b37

c0027fe3: e8 55 f9 ff ff call c002793d <debug\_panic>

c0027fe8: 8b 43 08 mov eax,DWORD PTR [ebx+0x8]

c0027feb: 83 c4 08 add esp,0x8

c0027fee: 5b pop ebx

c0027fef: c3 ret

c0027ff0 <list\_pop\_back>:

c0027ff0: 53 push ebx

c0027ff1: 83 ec 14 sub esp,0x14

c0027ff4: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0027ff8: e8 b5 ff ff ff call c0027fb2 <list\_back>

c0027ffd: 89 c3 mov ebx,eax

c0027fff: 89 04 24 mov DWORD PTR [esp],eax

c0028002: e8 9e fe ff ff call c0027ea5 <list\_remove>

c0028007: 89 d8 mov eax,ebx

c0028009: 83 c4 18 add esp,0x18

c002800c: 5b pop ebx

c002800d: c3 ret

c002800e <list\_reverse>:

c002800e: 56 push esi

c002800f: 53 push ebx

c0028010: 83 ec 10 sub esp,0x10

c0028013: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c0028017: 56 push esi

c0028018: e8 15 ff ff ff call c0027f32 <list\_empty>

c002801d: 83 c4 10 add esp,0x10

c0028020: 84 c0 test al,al

c0028022: 75 42 jne c0028066 <list\_reverse+0x58>

c0028024: 83 ec 0c sub esp,0xc

c0028027: 56 push esi

c0028028: e8 fa f9 ff ff call c0027a27 <list\_begin>

c002802d: 83 c4 10 add esp,0x10

c0028030: 89 c3 mov ebx,eax

c0028032: eb 0c jmp c0028040 <list\_reverse+0x32>

c0028034: 8b 13 mov edx,DWORD PTR [ebx]

c0028036: 8b 43 04 mov eax,DWORD PTR [ebx+0x4]

c0028039: 89 03 mov DWORD PTR [ebx],eax

c002803b: 89 53 04 mov DWORD PTR [ebx+0x4],edx

c002803e: 89 c3 mov ebx,eax

c0028040: 83 ec 0c sub esp,0xc

c0028043: 56 push esi

c0028044: e8 54 fa ff ff call c0027a9d <list\_end>

c0028049: 83 c4 10 add esp,0x10

c002804c: 39 c3 cmp ebx,eax

c002804e: 75 e4 jne c0028034 <list\_reverse+0x26>

c0028050: 8b 46 04 mov eax,DWORD PTR [esi+0x4]

c0028053: 8b 56 08 mov edx,DWORD PTR [esi+0x8]

c0028056: 89 56 04 mov DWORD PTR [esi+0x4],edx

c0028059: 89 46 08 mov DWORD PTR [esi+0x8],eax

c002805c: 8b 0a mov ecx,DWORD PTR [edx]

c002805e: 8b 58 04 mov ebx,DWORD PTR [eax+0x4]

c0028061: 89 1a mov DWORD PTR [edx],ebx

c0028063: 89 48 04 mov DWORD PTR [eax+0x4],ecx

c0028066: 83 c4 04 add esp,0x4

c0028069: 5b pop ebx

c002806a: 5e pop esi

c002806b: c3 ret

c002806c <list\_sort>:

c002806c: 55 push ebp

c002806d: 57 push edi

c002806e: 56 push esi

c002806f: 53 push ebx

c0028070: 83 ec 1c sub esp,0x1c

c0028073: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c0028077: 8b 7c 24 38 mov edi,DWORD PTR [esp+0x38]

c002807b: 83 7c 24 30 00 cmp DWORD PTR [esp+0x30],0x0

c0028080: 75 21 jne c00280a3 <list\_sort+0x37>

c0028082: 83 ec 0c sub esp,0xc

c0028085: 68 2a 0b 03 c0 push 0xc0030b2a

c002808a: 68 83 ed 02 c0 push 0xc002ed83

c002808f: 68 b0 e8 02 c0 push 0xc002e8b0

c0028094: 68 99 01 00 00 push 0x199

c0028099: 68 37 0b 03 c0 push 0xc0030b37

c002809e: e8 9a f8 ff ff call c002793d <debug\_panic>

c00280a3: 85 ed test ebp,ebp

c00280a5: 75 21 jne c00280c8 <list\_sort+0x5c>

c00280a7: 83 ec 0c sub esp,0xc

c00280aa: 68 4f 0b 03 c0 push 0xc0030b4f

c00280af: 68 83 ed 02 c0 push 0xc002ed83

c00280b4: 68 b0 e8 02 c0 push 0xc002e8b0

c00280b9: 68 9a 01 00 00 push 0x19a

c00280be: 68 37 0b 03 c0 push 0xc0030b37

c00280c3: e8 75 f8 ff ff call c002793d <debug\_panic>

c00280c8: 83 ec 0c sub esp,0xc

c00280cb: ff 74 24 3c push DWORD PTR [esp+0x3c]

c00280cf: e8 53 f9 ff ff call c0027a27 <list\_begin>

c00280d4: 83 c4 10 add esp,0x10

c00280d7: 89 c6 mov esi,eax

c00280d9: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

c00280e0: 00

c00280e1: e9 73 01 00 00 jmp c0028259 <list\_sort+0x1ed>

c00280e6: 83 44 24 0c 01 add DWORD PTR [esp+0xc],0x1

c00280eb: 83 ec 0c sub esp,0xc

c00280ee: 57 push edi

c00280ef: 89 e9 mov ecx,ebp

c00280f1: 89 c2 mov edx,eax

c00280f3: 89 f0 mov eax,esi

c00280f5: e8 48 fa ff ff call c0027b42 <find\_end\_of\_run>

c00280fa: 89 c3 mov ebx,eax

c00280fc: 83 c4 04 add esp,0x4

c00280ff: ff 74 24 3c push DWORD PTR [esp+0x3c]

c0028103: e8 95 f9 ff ff call c0027a9d <list\_end>

c0028108: 83 c4 10 add esp,0x10

c002810b: 39 c3 cmp ebx,eax

c002810d: 0f 84 5d 01 00 00 je c0028270 <list\_sort+0x204>

c0028113: 83 ec 0c sub esp,0xc

c0028116: 57 push edi

c0028117: 89 e9 mov ecx,ebp

c0028119: 89 c2 mov edx,eax

c002811b: 89 d8 mov eax,ebx

c002811d: e8 20 fa ff ff call c0027b42 <find\_end\_of\_run>

c0028122: 89 44 24 18 mov DWORD PTR [esp+0x18],eax

c0028126: 83 c4 10 add esp,0x10

c0028129: 85 f6 test esi,esi

c002812b: 75 21 jne c002814e <list\_sort+0xe2>

c002812d: 83 ec 0c sub esp,0xc

c0028130: 68 bd 0b 03 c0 push 0xc0030bbd

c0028135: 68 83 ed 02 c0 push 0xc002ed83

c002813a: 68 90 e8 02 c0 push 0xc002e890

c002813f: 68 80 01 00 00 push 0x180

c0028144: 68 37 0b 03 c0 push 0xc0030b37

c0028149: e8 ef f7 ff ff call c002793d <debug\_panic>

c002814e: 85 db test ebx,ebx

c0028150: 75 21 jne c0028173 <list\_sort+0x107>

c0028152: 83 ec 0c sub esp,0xc

c0028155: 68 c8 0b 03 c0 push 0xc0030bc8

c002815a: 68 83 ed 02 c0 push 0xc002ed83

c002815f: 68 90 e8 02 c0 push 0xc002e890

c0028164: 68 81 01 00 00 push 0x181

c0028169: 68 37 0b 03 c0 push 0xc0030b37

c002816e: e8 ca f7 ff ff call c002793d <debug\_panic>

c0028173: 83 7c 24 08 00 cmp DWORD PTR [esp+0x8],0x0

c0028178: 75 21 jne c002819b <list\_sort+0x12f>

c002817a: 83 ec 0c sub esp,0xc

c002817d: 68 d5 0b 03 c0 push 0xc0030bd5

c0028182: 68 83 ed 02 c0 push 0xc002ed83

c0028187: 68 90 e8 02 c0 push 0xc002e890

c002818c: 68 82 01 00 00 push 0x182

c0028191: 68 37 0b 03 c0 push 0xc0030b37

c0028196: e8 a2 f7 ff ff call c002793d <debug\_panic>

c002819b: 83 ec 0c sub esp,0xc

c002819e: 57 push edi

c002819f: 89 e9 mov ecx,ebp

c00281a1: 89 da mov edx,ebx

c00281a3: 89 f0 mov eax,esi

c00281a5: e8 71 fa ff ff call c0027c1b <is\_sorted>

c00281aa: 83 c4 10 add esp,0x10

c00281ad: 84 c0 test al,al

c00281af: 75 21 jne c00281d2 <list\_sort+0x166>

c00281b1: 83 ec 0c sub esp,0xc

c00281b4: 68 5c 0c 03 c0 push 0xc0030c5c

c00281b9: 68 83 ed 02 c0 push 0xc002ed83

c00281be: 68 90 e8 02 c0 push 0xc002e890

c00281c3: 68 84 01 00 00 push 0x184

c00281c8: 68 37 0b 03 c0 push 0xc0030b37

c00281cd: e8 6b f7 ff ff call c002793d <debug\_panic>

c00281d2: 83 ec 0c sub esp,0xc

c00281d5: 57 push edi

c00281d6: 89 e9 mov ecx,ebp

c00281d8: 8b 54 24 18 mov edx,DWORD PTR [esp+0x18]

c00281dc: 89 d8 mov eax,ebx

c00281de: e8 38 fa ff ff call c0027c1b <is\_sorted>

c00281e3: 83 c4 10 add esp,0x10

c00281e6: 84 c0 test al,al

c00281e8: 75 61 jne c002824b <list\_sort+0x1df>

c00281ea: 83 ec 0c sub esp,0xc

c00281ed: 68 7c 0c 03 c0 push 0xc0030c7c

c00281f2: 68 83 ed 02 c0 push 0xc002ed83

c00281f7: 68 90 e8 02 c0 push 0xc002e890

c00281fc: 68 85 01 00 00 push 0x185

c0028201: 68 37 0b 03 c0 push 0xc0030b37

c0028206: e8 32 f7 ff ff call c002793d <debug\_panic>

c002820b: 83 ec 04 sub esp,0x4

c002820e: 57 push edi

c002820f: 56 push esi

c0028210: 53 push ebx

c0028211: ff d5 call ebp

c0028213: 83 c4 10 add esp,0x10

c0028216: 84 c0 test al,al

c0028218: 75 10 jne c002822a <list\_sort+0x1be>

c002821a: 83 ec 0c sub esp,0xc

c002821d: 56 push esi

c002821e: e8 34 f8 ff ff call c0027a57 <list\_next>

c0028223: 83 c4 10 add esp,0x10

c0028226: 89 c6 mov esi,eax

c0028228: eb 21 jmp c002824b <list\_sort+0x1df>

c002822a: 83 ec 0c sub esp,0xc

c002822d: 53 push ebx

c002822e: e8 24 f8 ff ff call c0027a57 <list\_next>

c0028233: 89 c3 mov ebx,eax

c0028235: 89 04 24 mov DWORD PTR [esp],eax

c0028238: e8 c0 f8 ff ff call c0027afd <list\_prev>

c002823d: 83 c4 0c add esp,0xc

c0028240: 53 push ebx

c0028241: 50 push eax

c0028242: 56 push esi

c0028243: e8 3f fb ff ff call c0027d87 <list\_splice>

c0028248: 83 c4 10 add esp,0x10

c002824b: 39 f3 cmp ebx,esi

c002824d: 74 06 je c0028255 <list\_sort+0x1e9>

c002824f: 39 5c 24 08 cmp DWORD PTR [esp+0x8],ebx

c0028253: 75 b6 jne c002820b <list\_sort+0x19f>

c0028255: 8b 74 24 08 mov esi,DWORD PTR [esp+0x8]

c0028259: 83 ec 0c sub esp,0xc

c002825c: ff 74 24 3c push DWORD PTR [esp+0x3c]

c0028260: e8 38 f8 ff ff call c0027a9d <list\_end>

c0028265: 83 c4 10 add esp,0x10

c0028268: 39 c6 cmp esi,eax

c002826a: 0f 85 76 fe ff ff jne c00280e6 <list\_sort+0x7a>

c0028270: 83 7c 24 0c 01 cmp DWORD PTR [esp+0xc],0x1

c0028275: 0f 87 4d fe ff ff ja c00280c8 <list\_sort+0x5c>

c002827b: 83 ec 0c sub esp,0xc

c002827e: ff 74 24 3c push DWORD PTR [esp+0x3c]

c0028282: e8 16 f8 ff ff call c0027a9d <list\_end>

c0028287: 83 c4 04 add esp,0x4

c002828a: 89 c3 mov ebx,eax

c002828c: ff 74 24 3c push DWORD PTR [esp+0x3c]

c0028290: e8 92 f7 ff ff call c0027a27 <list\_begin>

c0028295: 89 3c 24 mov DWORD PTR [esp],edi

c0028298: 89 e9 mov ecx,ebp

c002829a: 89 da mov edx,ebx

c002829c: e8 7a f9 ff ff call c0027c1b <is\_sorted>

c00282a1: 83 c4 10 add esp,0x10

c00282a4: 84 c0 test al,al

c00282a6: 75 21 jne c00282c9 <list\_sort+0x25d>

c00282a8: 83 ec 0c sub esp,0xc

c00282ab: 68 9c 0c 03 c0 push 0xc0030c9c

c00282b0: 68 83 ed 02 c0 push 0xc002ed83

c00282b5: 68 b0 e8 02 c0 push 0xc002e8b0

c00282ba: 68 b7 01 00 00 push 0x1b7

c00282bf: 68 37 0b 03 c0 push 0xc0030b37

c00282c4: e8 74 f6 ff ff call c002793d <debug\_panic>

c00282c9: 83 c4 1c add esp,0x1c

c00282cc: 5b pop ebx

c00282cd: 5e pop esi

c00282ce: 5f pop edi

c00282cf: 5d pop ebp

c00282d0: c3 ret

c00282d1 <list\_insert\_ordered>:

c00282d1: 55 push ebp

c00282d2: 57 push edi

c00282d3: 56 push esi

c00282d4: 53 push ebx

c00282d5: 83 ec 0c sub esp,0xc

c00282d8: 8b 74 24 20 mov esi,DWORD PTR [esp+0x20]

c00282dc: 8b 7c 24 24 mov edi,DWORD PTR [esp+0x24]

c00282e0: 8b 6c 24 28 mov ebp,DWORD PTR [esp+0x28]

c00282e4: 85 f6 test esi,esi

c00282e6: 75 21 jne c0028309 <list\_insert\_ordered+0x3

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c00282e8: 83 ec 0c sub esp,0xc

c00282eb: 68 2a 0b 03 c0 push 0xc0030b2a

c00282f0: 68 83 ed 02 c0 push 0xc002ed83

c00282f5: 68 7c e8 02 c0 push 0xc002e87c

c00282fa: 68 c3 01 00 00 push 0x1c3

c00282ff: 68 37 0b 03 c0 push 0xc0030b37

c0028304: e8 34 f6 ff ff call c002793d <debug\_panic>

c0028309: 85 ff test edi,edi

c002830b: 75 21 jne c002832e <list\_insert\_ordered+0x5

d>

c002830d: 83 ec 0c sub esp,0xc

c0028310: 68 63 0b 03 c0 push 0xc0030b63

c0028315: 68 83 ed 02 c0 push 0xc002ed83

c002831a: 68 7c e8 02 c0 push 0xc002e87c

c002831f: 68 c4 01 00 00 push 0x1c4

c0028324: 68 37 0b 03 c0 push 0xc0030b37

c0028329: e8 0f f6 ff ff call c002793d <debug\_panic>

c002832e: 85 ed test ebp,ebp

c0028330: 75 21 jne c0028353 <list\_insert\_ordered+0x8

2>

c0028332: 83 ec 0c sub esp,0xc

c0028335: 68 4f 0b 03 c0 push 0xc0030b4f

c002833a: 68 83 ed 02 c0 push 0xc002ed83

c002833f: 68 7c e8 02 c0 push 0xc002e87c

c0028344: 68 c5 01 00 00 push 0x1c5

c0028349: 68 37 0b 03 c0 push 0xc0030b37

c002834e: e8 ea f5 ff ff call c002793d <debug\_panic>

c0028353: 83 ec 0c sub esp,0xc

c0028356: 56 push esi

c0028357: e8 cb f6 ff ff call c0027a27 <list\_begin>

c002835c: 83 c4 10 add esp,0x10

c002835f: 89 c3 mov ebx,eax

c0028361: eb 20 jmp c0028383 <list\_insert\_ordered+0xb

2>

c0028363: 83 ec 04 sub esp,0x4

c0028366: ff 74 24 30 push DWORD PTR [esp+0x30]

c002836a: 53 push ebx

c002836b: 57 push edi

c002836c: ff d5 call ebp

c002836e: 83 c4 10 add esp,0x10

c0028371: 84 c0 test al,al

c0028373: 75 20 jne c0028395 <list\_insert\_ordered+0xc

4>

c0028375: 83 ec 0c sub esp,0xc

c0028378: 53 push ebx

c0028379: e8 d9 f6 ff ff call c0027a57 <list\_next>

c002837e: 83 c4 10 add esp,0x10

c0028381: 89 c3 mov ebx,eax

c0028383: 83 ec 0c sub esp,0xc

c0028386: 56 push esi

c0028387: e8 11 f7 ff ff call c0027a9d <list\_end>

c002838c: 83 c4 10 add esp,0x10

c002838f: 39 c3 cmp ebx,eax

c0028391: 75 d0 jne c0028363 <list\_insert\_ordered+0x9

2>

c0028393: eb 02 jmp c0028397 <list\_insert\_ordered+0xc

6>

c0028395: 89 d8 mov eax,ebx

c0028397: 83 ec 08 sub esp,0x8

c002839a: 57 push edi

c002839b: 50 push eax

c002839c: e8 67 f9 ff ff call c0027d08 <list\_insert>

c00283a1: 83 c4 1c add esp,0x1c

c00283a4: 5b pop ebx

c00283a5: 5e pop esi

c00283a6: 5f pop edi

c00283a7: 5d pop ebp

c00283a8: c3 ret

c00283a9 <list\_unique>:

c00283a9: 55 push ebp

c00283aa: 57 push edi

c00283ab: 56 push esi

c00283ac: 53 push ebx

c00283ad: 83 ec 0c sub esp,0xc

c00283b0: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c00283b4: 8b 6c 24 28 mov ebp,DWORD PTR [esp+0x28]

c00283b8: 85 ff test edi,edi

c00283ba: 75 21 jne c00283dd <list\_unique+0x34>

c00283bc: 83 ec 0c sub esp,0xc

c00283bf: 68 2a 0b 03 c0 push 0xc0030b2a

c00283c4: 68 83 ed 02 c0 push 0xc002ed83

c00283c9: 68 70 e8 02 c0 push 0xc002e870

c00283ce: 68 d7 01 00 00 push 0x1d7

c00283d3: 68 37 0b 03 c0 push 0xc0030b37

c00283d8: e8 60 f5 ff ff call c002793d <debug\_panic>

c00283dd: 85 ed test ebp,ebp

c00283df: 75 21 jne c0028402 <list\_unique+0x59>

c00283e1: 83 ec 0c sub esp,0xc

c00283e4: 68 4f 0b 03 c0 push 0xc0030b4f

c00283e9: 68 83 ed 02 c0 push 0xc002ed83

c00283ee: 68 70 e8 02 c0 push 0xc002e870

c00283f3: 68 d8 01 00 00 push 0x1d8

c00283f8: 68 37 0b 03 c0 push 0xc0030b37

c00283fd: e8 3b f5 ff ff call c002793d <debug\_panic>

c0028402: 83 ec 0c sub esp,0xc

c0028405: 57 push edi

c0028406: e8 27 fb ff ff call c0027f32 <list\_empty>

c002840b: 83 c4 10 add esp,0x10

c002840e: 84 c0 test al,al

c0028410: 75 79 jne c002848b <list\_unique+0xe2>

c0028412: 83 ec 0c sub esp,0xc

c0028415: 57 push edi

c0028416: e8 0c f6 ff ff call c0027a27 <list\_begin>

c002841b: 83 c4 10 add esp,0x10

c002841e: 89 c6 mov esi,eax

c0028420: eb 4f jmp c0028471 <list\_unique+0xc8>

c0028422: 83 ec 04 sub esp,0x4

c0028425: ff 74 24 30 push DWORD PTR [esp+0x30]

c0028429: 53 push ebx

c002842a: 56 push esi

c002842b: ff d5 call ebp

c002842d: 83 c4 10 add esp,0x10

c0028430: 84 c0 test al,al

c0028432: 75 3b jne c002846f <list\_unique+0xc6>

c0028434: 83 ec 04 sub esp,0x4

c0028437: ff 74 24 30 push DWORD PTR [esp+0x30]

c002843b: 56 push esi

c002843c: 53 push ebx

c002843d: ff d5 call ebp

c002843f: 83 c4 10 add esp,0x10

c0028442: 84 c0 test al,al

c0028444: 75 29 jne c002846f <list\_unique+0xc6>

c0028446: 83 ec 0c sub esp,0xc

c0028449: 53 push ebx

c002844a: e8 56 fa ff ff call c0027ea5 <list\_remove>

c002844f: 83 c4 10 add esp,0x10

c0028452: 83 7c 24 24 00 cmp DWORD PTR [esp+0x24],0x0

c0028457: 74 14 je c002846d <list\_unique+0xc4>

c0028459: 83 ec 08 sub esp,0x8

c002845c: 53 push ebx

c002845d: ff 74 24 30 push DWORD PTR [esp+0x30]

c0028461: e8 22 fa ff ff call c0027e88 <list\_push\_back>

c0028466: 83 c4 10 add esp,0x10

c0028469: 89 f3 mov ebx,esi

c002846b: eb 02 jmp c002846f <list\_unique+0xc6>

c002846d: 89 f3 mov ebx,esi

c002846f: 89 de mov esi,ebx

c0028471: 83 ec 0c sub esp,0xc

c0028474: 56 push esi

c0028475: e8 dd f5 ff ff call c0027a57 <list\_next>

c002847a: 89 c3 mov ebx,eax

c002847c: 89 3c 24 mov DWORD PTR [esp],edi

c002847f: e8 19 f6 ff ff call c0027a9d <list\_end>

c0028484: 83 c4 10 add esp,0x10

c0028487: 39 c3 cmp ebx,eax

c0028489: 75 97 jne c0028422 <list\_unique+0x79>

c002848b: 83 c4 0c add esp,0xc

c002848e: 5b pop ebx

c002848f: 5e pop esi

c0028490: 5f pop edi

c0028491: 5d pop ebp

c0028492: c3 ret

c0028493 <list\_max>:

c0028493: 55 push ebp

c0028494: 57 push edi

c0028495: 56 push esi

c0028496: 53 push ebx

c0028497: 83 ec 18 sub esp,0x18

c002849a: 8b 7c 24 2c mov edi,DWORD PTR [esp+0x2c]

c002849e: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c00284a2: 57 push edi

c00284a3: e8 7f f5 ff ff call c0027a27 <list\_begin>

c00284a8: 89 c6 mov esi,eax

c00284aa: 89 3c 24 mov DWORD PTR [esp],edi

c00284ad: e8 eb f5 ff ff call c0027a9d <list\_end>

c00284b2: 83 c4 10 add esp,0x10

c00284b5: 39 c6 cmp esi,eax

c00284b7: 74 3e je c00284f7 <list\_max+0x64>

c00284b9: 83 ec 0c sub esp,0xc

c00284bc: 56 push esi

c00284bd: e8 95 f5 ff ff call c0027a57 <list\_next>

c00284c2: 83 c4 10 add esp,0x10

c00284c5: 89 c3 mov ebx,eax

c00284c7: eb 1c jmp c00284e5 <list\_max+0x52>

c00284c9: 83 ec 04 sub esp,0x4

c00284cc: 55 push ebp

c00284cd: 53 push ebx

c00284ce: 56 push esi

c00284cf: ff 54 24 34 call DWORD PTR [esp+0x34]

c00284d3: 84 c0 test al,al

c00284d5: 0f 45 f3 cmovne esi,ebx

c00284d8: 89 1c 24 mov DWORD PTR [esp],ebx

c00284db: e8 77 f5 ff ff call c0027a57 <list\_next>

c00284e0: 83 c4 10 add esp,0x10

c00284e3: 89 c3 mov ebx,eax

c00284e5: 83 ec 0c sub esp,0xc

c00284e8: 57 push edi

c00284e9: e8 af f5 ff ff call c0027a9d <list\_end>

c00284ee: 83 c4 10 add esp,0x10

c00284f1: 39 c3 cmp ebx,eax

c00284f3: 75 d4 jne c00284c9 <list\_max+0x36>

c00284f5: eb 02 jmp c00284f9 <list\_max+0x66>

c00284f7: 89 c6 mov esi,eax

c00284f9: 89 f0 mov eax,esi

c00284fb: 83 c4 0c add esp,0xc

c00284fe: 5b pop ebx

c00284ff: 5e pop esi

c0028500: 5f pop edi

c0028501: 5d pop ebp

c0028502: c3 ret

c0028503 <list\_min>:

c0028503: 55 push ebp

c0028504: 57 push edi

c0028505: 56 push esi

c0028506: 53 push ebx

c0028507: 83 ec 18 sub esp,0x18

c002850a: 8b 7c 24 2c mov edi,DWORD PTR [esp+0x2c]

c002850e: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c0028512: 57 push edi

c0028513: e8 0f f5 ff ff call c0027a27 <list\_begin>

c0028518: 89 c6 mov esi,eax

c002851a: 89 3c 24 mov DWORD PTR [esp],edi

c002851d: e8 7b f5 ff ff call c0027a9d <list\_end>

c0028522: 83 c4 10 add esp,0x10

c0028525: 39 c6 cmp esi,eax

c0028527: 74 3e je c0028567 <list\_min+0x64>

c0028529: 83 ec 0c sub esp,0xc

c002852c: 56 push esi

c002852d: e8 25 f5 ff ff call c0027a57 <list\_next>

c0028532: 83 c4 10 add esp,0x10

c0028535: 89 c3 mov ebx,eax

c0028537: eb 1c jmp c0028555 <list\_min+0x52>

c0028539: 83 ec 04 sub esp,0x4

c002853c: 55 push ebp

c002853d: 56 push esi

c002853e: 53 push ebx

c002853f: ff 54 24 34 call DWORD PTR [esp+0x34]

c0028543: 84 c0 test al,al

c0028545: 0f 45 f3 cmovne esi,ebx

c0028548: 89 1c 24 mov DWORD PTR [esp],ebx

c002854b: e8 07 f5 ff ff call c0027a57 <list\_next>

c0028550: 83 c4 10 add esp,0x10

c0028553: 89 c3 mov ebx,eax

c0028555: 83 ec 0c sub esp,0xc

c0028558: 57 push edi

c0028559: e8 3f f5 ff ff call c0027a9d <list\_end>

c002855e: 83 c4 10 add esp,0x10

c0028561: 39 c3 cmp ebx,eax

c0028563: 75 d4 jne c0028539 <list\_min+0x36>

c0028565: eb 02 jmp c0028569 <list\_min+0x66>

c0028567: 89 c6 mov esi,eax

c0028569: 89 f0 mov eax,esi

c002856b: 83 c4 0c add esp,0xc

c002856e: 5b pop ebx

c002856f: 5e pop esi

c0028570: 5f pop edi

c0028571: 5d pop ebp

c0028572: c3 ret

c0028573 <bitmap\_buf\_size>:

c0028573: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0028577: 83 c0 1f add eax,0x1f

c002857a: c1 e8 05 shr eax,0x5

c002857d: 8d 04 85 08 00 00 00 lea eax,[eax\*4+0x8]

c0028584: c3 ret

c0028585 <bitmap\_destroy>:

c0028585: 53 push ebx

c0028586: 83 ec 08 sub esp,0x8

c0028589: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002858d: 85 db test ebx,ebx

c002858f: 74 16 je c00285a7 <bitmap\_destroy+0x22>

c0028591: 83 ec 0c sub esp,0xc

c0028594: ff 73 04 push DWORD PTR [ebx+0x4]

c0028597: e8 e9 ac ff ff call c0023285 <free>

c002859c: 89 1c 24 mov DWORD PTR [esp],ebx

c002859f: e8 e1 ac ff ff call c0023285 <free>

c00285a4: 83 c4 10 add esp,0x10

c00285a7: 83 c4 08 add esp,0x8

c00285aa: 5b pop ebx

c00285ab: c3 ret

c00285ac <bitmap\_size>:

c00285ac: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c00285b0: 8b 00 mov eax,DWORD PTR [eax]

c00285b2: c3 ret

c00285b3 <bitmap\_mark>:

c00285b3: 53 push ebx

c00285b4: 8b 4c 24 0c mov ecx,DWORD PTR [esp+0xc]

c00285b8: 89 cb mov ebx,ecx

c00285ba: c1 eb 05 shr ebx,0x5

c00285bd: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c00285c1: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c00285c4: b8 01 00 00 00 mov eax,0x1

c00285c9: d3 e0 shl eax,cl

c00285cb: 09 04 9a or DWORD PTR [edx+ebx\*4],eax

c00285ce: 5b pop ebx

c00285cf: c3 ret

c00285d0 <bitmap\_reset>:

c00285d0: 53 push ebx

c00285d1: 8b 4c 24 0c mov ecx,DWORD PTR [esp+0xc]

c00285d5: 89 cb mov ebx,ecx

c00285d7: c1 eb 05 shr ebx,0x5

c00285da: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c00285de: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c00285e1: b8 01 00 00 00 mov eax,0x1

c00285e6: d3 e0 shl eax,cl

c00285e8: f7 d0 not eax

c00285ea: 21 04 9a and DWORD PTR [edx+ebx\*4],eax

c00285ed: 5b pop ebx

c00285ee: c3 ret

c00285ef <bitmap\_set>:

c00285ef: 83 ec 0c sub esp,0xc

c00285f2: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00285f6: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c00285fa: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

c00285fe: 85 c0 test eax,eax

c0028600: 75 21 jne c0028623 <bitmap\_set+0x34>

c0028602: 83 ec 0c sub esp,0xc

c0028605: 68 01 09 03 c0 push 0xc0030901

c002860a: 68 83 ed 02 c0 push 0xc002ed83

c002860f: 68 c0 e9 02 c0 push 0xc002e9c0

c0028614: 68 99 00 00 00 push 0x99

c0028619: 68 d6 0c 03 c0 push 0xc0030cd6

c002861e: e8 1a f3 ff ff call c002793d <debug\_panic>

c0028623: 39 10 cmp DWORD PTR [eax],edx

c0028625: 77 21 ja c0028648 <bitmap\_set+0x59>

c0028627: 83 ec 0c sub esp,0xc

c002862a: 68 f0 0c 03 c0 push 0xc0030cf0

c002862f: 68 83 ed 02 c0 push 0xc002ed83

c0028634: 68 c0 e9 02 c0 push 0xc002e9c0

c0028639: 68 9a 00 00 00 push 0x9a

c002863e: 68 d6 0c 03 c0 push 0xc0030cd6

c0028643: e8 f5 f2 ff ff call c002793d <debug\_panic>

c0028648: 84 c9 test cl,cl

c002864a: 74 0f je c002865b <bitmap\_set+0x6c>

c002864c: 83 ec 08 sub esp,0x8

c002864f: 52 push edx

c0028650: 50 push eax

c0028651: e8 5d ff ff ff call c00285b3 <bitmap\_mark>

c0028656: 83 c4 10 add esp,0x10

c0028659: eb 0d jmp c0028668 <bitmap\_set+0x79>

c002865b: 83 ec 08 sub esp,0x8

c002865e: 52 push edx

c002865f: 50 push eax

c0028660: e8 6b ff ff ff call c00285d0 <bitmap\_reset>

c0028665: 83 c4 10 add esp,0x10

c0028668: 83 c4 0c add esp,0xc

c002866b: c3 ret

c002866c <bitmap\_flip>:

c002866c: 53 push ebx

c002866d: 8b 4c 24 0c mov ecx,DWORD PTR [esp+0xc]

c0028671: 89 cb mov ebx,ecx

c0028673: c1 eb 05 shr ebx,0x5

c0028676: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c002867a: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c002867d: b8 01 00 00 00 mov eax,0x1

c0028682: d3 e0 shl eax,cl

c0028684: 31 04 9a xor DWORD PTR [edx+ebx\*4],eax

c0028687: 5b pop ebx

c0028688: c3 ret

c0028689 <bitmap\_test>:

c0028689: 53 push ebx

c002868a: 83 ec 08 sub esp,0x8

c002868d: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0028691: 8b 4c 24 14 mov ecx,DWORD PTR [esp+0x14]

c0028695: 85 c0 test eax,eax

c0028697: 75 21 jne c00286ba <bitmap\_test+0x31>

c0028699: 83 ec 0c sub esp,0xc

c002869c: 68 01 09 03 c0 push 0xc0030901

c00286a1: 68 83 ed 02 c0 push 0xc002ed83

c00286a6: 68 b4 e9 02 c0 push 0xc002e9b4

c00286ab: 68 ce 00 00 00 push 0xce

c00286b0: 68 d6 0c 03 c0 push 0xc0030cd6

c00286b5: e8 83 f2 ff ff call c002793d <debug\_panic>

c00286ba: 39 08 cmp DWORD PTR [eax],ecx

c00286bc: 77 21 ja c00286df <bitmap\_test+0x56>

c00286be: 83 ec 0c sub esp,0xc

c00286c1: 68 f0 0c 03 c0 push 0xc0030cf0

c00286c6: 68 83 ed 02 c0 push 0xc002ed83

c00286cb: 68 b4 e9 02 c0 push 0xc002e9b4

c00286d0: 68 cf 00 00 00 push 0xcf

c00286d5: 68 d6 0c 03 c0 push 0xc0030cd6

c00286da: e8 5e f2 ff ff call c002793d <debug\_panic>

c00286df: 89 cb mov ebx,ecx

c00286e1: c1 eb 05 shr ebx,0x5

c00286e4: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

c00286e7: b8 01 00 00 00 mov eax,0x1

c00286ec: d3 e0 shl eax,cl

c00286ee: 85 04 9a test DWORD PTR [edx+ebx\*4],eax

c00286f1: 0f 95 c0 setne al

c00286f4: 83 c4 08 add esp,0x8

c00286f7: 5b pop ebx

c00286f8: c3 ret

c00286f9 <bitmap\_set\_multiple>:

c00286f9: 55 push ebp

c00286fa: 57 push edi

c00286fb: 56 push esi

c00286fc: 53 push ebx

c00286fd: 83 ec 0c sub esp,0xc

c0028700: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c0028704: 8b 5c 24 24 mov ebx,DWORD PTR [esp+0x24]

c0028708: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c002870c: 0f b6 4c 24 2c movzx ecx,BYTE PTR [esp+0x2c]

c0028711: 85 ff test edi,edi

c0028713: 75 21 jne c0028736 <bitmap\_set\_multiple+0x3

d>

c0028715: 83 ec 0c sub esp,0xc

c0028718: 68 01 09 03 c0 push 0xc0030901

c002871d: 68 83 ed 02 c0 push 0xc002ed83

c0028722: 68 90 e9 02 c0 push 0xc002e990

c0028727: 68 e4 00 00 00 push 0xe4

c002872c: 68 d6 0c 03 c0 push 0xc0030cd6

c0028731: e8 07 f2 ff ff call c002793d <debug\_panic>

c0028736: 8b 17 mov edx,DWORD PTR [edi]

c0028738: 39 da cmp edx,ebx

c002873a: 73 21 jae c002875d <bitmap\_set\_multiple+0x6

4>

c002873c: 83 ec 0c sub esp,0xc

c002873f: 68 01 0d 03 c0 push 0xc0030d01

c0028744: 68 83 ed 02 c0 push 0xc002ed83

c0028749: 68 90 e9 02 c0 push 0xc002e990

c002874e: 68 e5 00 00 00 push 0xe5

c0028753: 68 d6 0c 03 c0 push 0xc0030cd6

c0028758: e8 e0 f1 ff ff call c002793d <debug\_panic>

c002875d: 8d 2c 03 lea ebp,[ebx+eax\*1]

c0028760: 39 ea cmp edx,ebp

c0028762: 72 09 jb c002876d <bitmap\_set\_multiple+0x7

4>

c0028764: 0f b6 f1 movzx esi,cl

c0028767: 85 c0 test eax,eax

c0028769: 75 23 jne c002878e <bitmap\_set\_multiple+0x9

5>

c002876b: eb 36 jmp c00287a3 <bitmap\_set\_multiple+0xa

a>

c002876d: 83 ec 0c sub esp,0xc

c0028770: 68 15 0d 03 c0 push 0xc0030d15

c0028775: 68 83 ed 02 c0 push 0xc002ed83

c002877a: 68 90 e9 02 c0 push 0xc002e990

c002877f: 68 e6 00 00 00 push 0xe6

c0028784: 68 d6 0c 03 c0 push 0xc0030cd6

c0028789: e8 af f1 ff ff call c002793d <debug\_panic>

c002878e: 83 ec 04 sub esp,0x4

c0028791: 56 push esi

c0028792: 53 push ebx

c0028793: 57 push edi

c0028794: e8 56 fe ff ff call c00285ef <bitmap\_set>

c0028799: 83 c3 01 add ebx,0x1

c002879c: 83 c4 10 add esp,0x10

c002879f: 39 eb cmp ebx,ebp

c00287a1: 75 eb jne c002878e <bitmap\_set\_multiple+0x9

5>

c00287a3: 83 c4 0c add esp,0xc

c00287a6: 5b pop ebx

c00287a7: 5e pop esi

c00287a8: 5f pop edi

c00287a9: 5d pop ebp

c00287aa: c3 ret

c00287ab <bitmap\_set\_all>:

c00287ab: 83 ec 0c sub esp,0xc

c00287ae: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c00287b2: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c00287b6: 85 c0 test eax,eax

c00287b8: 75 21 jne c00287db <bitmap\_set\_all+0x30>

c00287ba: 83 ec 0c sub esp,0xc

c00287bd: 68 01 09 03 c0 push 0xc0030901

c00287c2: 68 83 ed 02 c0 push 0xc002ed83

c00287c7: 68 a4 e9 02 c0 push 0xc002e9a4

c00287cc: 68 d9 00 00 00 push 0xd9

c00287d1: 68 d6 0c 03 c0 push 0xc0030cd6

c00287d6: e8 62 f1 ff ff call c002793d <debug\_panic>

c00287db: 0f b6 d2 movzx edx,dl

c00287de: 52 push edx

c00287df: ff 30 push DWORD PTR [eax]

c00287e1: 6a 00 push 0x0

c00287e3: 50 push eax

c00287e4: e8 10 ff ff ff call c00286f9 <bitmap\_set\_multiple>

c00287e9: 83 c4 1c add esp,0x1c

c00287ec: c3 ret

c00287ed <bitmap\_create>:

c00287ed: 56 push esi

c00287ee: 53 push ebx

c00287ef: 83 ec 10 sub esp,0x10

c00287f2: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c00287f6: 6a 08 push 0x8

c00287f8: e8 f7 a8 ff ff call c00230f4 <malloc>

c00287fd: 83 c4 10 add esp,0x10

c0028800: 85 c0 test eax,eax

c0028802: 74 49 je c002884d <bitmap\_create+0x60>

c0028804: 89 c3 mov ebx,eax

c0028806: 89 30 mov DWORD PTR [eax],esi

c0028808: 83 ec 0c sub esp,0xc

c002880b: 8d 46 1f lea eax,[esi+0x1f]

c002880e: c1 e8 05 shr eax,0x5

c0028811: c1 e0 02 shl eax,0x2

c0028814: 50 push eax

c0028815: e8 da a8 ff ff call c00230f4 <malloc>

c002881a: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002881d: 83 c4 10 add esp,0x10

c0028820: 85 f6 test esi,esi

c0028822: 74 04 je c0028828 <bitmap\_create+0x3b>

c0028824: 85 c0 test eax,eax

c0028826: 74 12 je c002883a <bitmap\_create+0x4d>

c0028828: 83 ec 08 sub esp,0x8

c002882b: 6a 00 push 0x0

c002882d: 53 push ebx

c002882e: e8 78 ff ff ff call c00287ab <bitmap\_set\_all>

c0028833: 83 c4 10 add esp,0x10

c0028836: 89 d8 mov eax,ebx

c0028838: eb 18 jmp c0028852 <bitmap\_create+0x65>

c002883a: 83 ec 0c sub esp,0xc

c002883d: 53 push ebx

c002883e: e8 42 aa ff ff call c0023285 <free>

c0028843: 83 c4 10 add esp,0x10

c0028846: b8 00 00 00 00 mov eax,0x0

c002884b: eb 05 jmp c0028852 <bitmap\_create+0x65>

c002884d: b8 00 00 00 00 mov eax,0x0

c0028852: 83 c4 04 add esp,0x4

c0028855: 5b pop ebx

c0028856: 5e pop esi

c0028857: c3 ret

c0028858 <bitmap\_create\_in\_buf>:

c0028858: 56 push esi

c0028859: 53 push ebx

c002885a: 83 ec 04 sub esp,0x4

c002885d: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0028861: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c0028865: 56 push esi

c0028866: e8 08 fd ff ff call c0028573 <bitmap\_buf\_size>

c002886b: 83 c4 04 add esp,0x4

c002886e: 3b 44 24 18 cmp eax,DWORD PTR [esp+0x18]

c0028872: 76 1e jbe c0028892 <bitmap\_create\_in\_buf+0x

3a>

c0028874: 83 ec 0c sub esp,0xc

c0028877: 68 5c 0d 03 c0 push 0xc0030d5c

c002887c: 68 83 ed 02 c0 push 0xc002ed83

c0028881: 68 cc e9 02 c0 push 0xc002e9cc

c0028886: 6a 6d push 0x6d

c0028888: 68 d6 0c 03 c0 push 0xc0030cd6

c002888d: e8 ab f0 ff ff call c002793d <debug\_panic>

c0028892: 89 33 mov DWORD PTR [ebx],esi

c0028894: 8d 43 08 lea eax,[ebx+0x8]

c0028897: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002889a: 83 ec 08 sub esp,0x8

c002889d: 6a 00 push 0x0

c002889f: 53 push ebx

c00288a0: e8 06 ff ff ff call c00287ab <bitmap\_set\_all>

c00288a5: 89 d8 mov eax,ebx

c00288a7: 83 c4 14 add esp,0x14

c00288aa: 5b pop ebx

c00288ab: 5e pop esi

c00288ac: c3 ret

c00288ad <bitmap\_count>:

c00288ad: 55 push ebp

c00288ae: 57 push edi

c00288af: 56 push esi

c00288b0: 53 push ebx

c00288b1: 83 ec 1c sub esp,0x1c

c00288b4: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

c00288b8: 8b 5c 24 34 mov ebx,DWORD PTR [esp+0x34]

c00288bc: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

c00288c0: 0f b6 54 24 3c movzx edx,BYTE PTR [esp+0x3c]

c00288c5: 88 54 24 0f mov BYTE PTR [esp+0xf],dl

c00288c9: 85 ff test edi,edi

c00288cb: 75 21 jne c00288ee <bitmap\_count+0x41>

c00288cd: 83 ec 0c sub esp,0xc

c00288d0: 68 01 09 03 c0 push 0xc0030901

c00288d5: 68 83 ed 02 c0 push 0xc002ed83

c00288da: 68 80 e9 02 c0 push 0xc002e980

c00288df: 68 f3 00 00 00 push 0xf3

c00288e4: 68 d6 0c 03 c0 push 0xc0030cd6

c00288e9: e8 4f f0 ff ff call c002793d <debug\_panic>

c00288ee: 8b 17 mov edx,DWORD PTR [edi]

c00288f0: 39 da cmp edx,ebx

c00288f2: 73 21 jae c0028915 <bitmap\_count+0x68>

c00288f4: 83 ec 0c sub esp,0xc

c00288f7: 68 01 0d 03 c0 push 0xc0030d01

c00288fc: 68 83 ed 02 c0 push 0xc002ed83

c0028901: 68 80 e9 02 c0 push 0xc002e980

c0028906: 68 f4 00 00 00 push 0xf4

c002890b: 68 d6 0c 03 c0 push 0xc0030cd6

c0028910: e8 28 f0 ff ff call c002793d <debug\_panic>

c0028915: 8d 2c 03 lea ebp,[ebx+eax\*1]

c0028918: 39 ea cmp edx,ebp

c002891a: 72 0b jb c0028927 <bitmap\_count+0x7a>

c002891c: be 00 00 00 00 mov esi,0x0

c0028921: 85 c0 test eax,eax

c0028923: 75 23 jne c0028948 <bitmap\_count+0x9b>

c0028925: eb 41 jmp c0028968 <bitmap\_count+0xbb>

c0028927: 83 ec 0c sub esp,0xc

c002892a: 68 15 0d 03 c0 push 0xc0030d15

c002892f: 68 83 ed 02 c0 push 0xc002ed83

c0028934: 68 80 e9 02 c0 push 0xc002e980

c0028939: 68 f5 00 00 00 push 0xf5

c002893e: 68 d6 0c 03 c0 push 0xc0030cd6

c0028943: e8 f5 ef ff ff call c002793d <debug\_panic>

c0028948: 83 ec 08 sub esp,0x8

c002894b: 53 push ebx

c002894c: 57 push edi

c002894d: e8 37 fd ff ff call c0028689 <bitmap\_test>

c0028952: 83 c4 10 add esp,0x10

c0028955: 3a 44 24 0f cmp al,BYTE PTR [esp+0xf]

c0028959: 0f 94 c0 sete al

c002895c: 0f b6 c0 movzx eax,al

c002895f: 01 c6 add esi,eax

c0028961: 83 c3 01 add ebx,0x1

c0028964: 39 eb cmp ebx,ebp

c0028966: 75 e0 jne c0028948 <bitmap\_count+0x9b>

c0028968: 89 f0 mov eax,esi

c002896a: 83 c4 1c add esp,0x1c

c002896d: 5b pop ebx

c002896e: 5e pop esi

c002896f: 5f pop edi

c0028970: 5d pop ebp

c0028971: c3 ret

c0028972 <bitmap\_contains>:

c0028972: 55 push ebp

c0028973: 57 push edi

c0028974: 56 push esi

c0028975: 53 push ebx

c0028976: 83 ec 0c sub esp,0xc

c0028979: 8b 74 24 20 mov esi,DWORD PTR [esp+0x20]

c002897d: 8b 5c 24 24 mov ebx,DWORD PTR [esp+0x24]

c0028981: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0028985: 0f b6 6c 24 2c movzx ebp,BYTE PTR [esp+0x2c]

c002898a: 85 f6 test esi,esi

c002898c: 75 21 jne c00289af <bitmap\_contains+0x3d>

c002898e: 83 ec 0c sub esp,0xc

c0028991: 68 01 09 03 c0 push 0xc0030901

c0028996: 68 83 ed 02 c0 push 0xc002ed83

c002899b: 68 70 e9 02 c0 push 0xc002e970

c00289a0: 68 05 01 00 00 push 0x105

c00289a5: 68 d6 0c 03 c0 push 0xc0030cd6

c00289aa: e8 8e ef ff ff call c002793d <debug\_panic>

c00289af: 8b 16 mov edx,DWORD PTR [esi]

c00289b1: 39 da cmp edx,ebx

c00289b3: 73 21 jae c00289d6 <bitmap\_contains+0x64>

c00289b5: 83 ec 0c sub esp,0xc

c00289b8: 68 01 0d 03 c0 push 0xc0030d01

c00289bd: 68 83 ed 02 c0 push 0xc002ed83

c00289c2: 68 70 e9 02 c0 push 0xc002e970

c00289c7: 68 06 01 00 00 push 0x106

c00289cc: 68 d6 0c 03 c0 push 0xc0030cd6

c00289d1: e8 67 ef ff ff call c002793d <debug\_panic>

c00289d6: 8d 3c 03 lea edi,[ebx+eax\*1]

c00289d9: 39 fa cmp edx,edi

c00289db: 72 06 jb c00289e3 <bitmap\_contains+0x71>

c00289dd: 85 c0 test eax,eax

c00289df: 75 23 jne c0028a04 <bitmap\_contains+0x92>

c00289e1: eb 47 jmp c0028a2a <bitmap\_contains+0xb8>

c00289e3: 83 ec 0c sub esp,0xc

c00289e6: 68 15 0d 03 c0 push 0xc0030d15

c00289eb: 68 83 ed 02 c0 push 0xc002ed83

c00289f0: 68 70 e9 02 c0 push 0xc002e970

c00289f5: 68 07 01 00 00 push 0x107

c00289fa: 68 d6 0c 03 c0 push 0xc0030cd6

c00289ff: e8 39 ef ff ff call c002793d <debug\_panic>

c0028a04: 83 ec 08 sub esp,0x8

c0028a07: 53 push ebx

c0028a08: 56 push esi

c0028a09: e8 7b fc ff ff call c0028689 <bitmap\_test>

c0028a0e: 83 c4 10 add esp,0x10

c0028a11: 89 e9 mov ecx,ebp

c0028a13: 38 c8 cmp al,cl

c0028a15: 74 0e je c0028a25 <bitmap\_contains+0xb3>

c0028a17: 83 c3 01 add ebx,0x1

c0028a1a: 39 df cmp edi,ebx

c0028a1c: 75 e6 jne c0028a04 <bitmap\_contains+0x92>

c0028a1e: b8 00 00 00 00 mov eax,0x0

c0028a23: eb 05 jmp c0028a2a <bitmap\_contains+0xb8>

c0028a25: b8 01 00 00 00 mov eax,0x1

c0028a2a: 83 c4 0c add esp,0xc

c0028a2d: 5b pop ebx

c0028a2e: 5e pop esi

c0028a2f: 5f pop edi

c0028a30: 5d pop ebp

c0028a31: c3 ret

c0028a32 <bitmap\_any>:

c0028a32: 83 ec 0c sub esp,0xc

c0028a35: 6a 01 push 0x1

c0028a37: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a3b: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a3f: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a43: e8 2a ff ff ff call c0028972 <bitmap\_contains>

c0028a48: 83 c4 1c add esp,0x1c

c0028a4b: c3 ret

c0028a4c <bitmap\_none>:

c0028a4c: 83 ec 0c sub esp,0xc

c0028a4f: 6a 01 push 0x1

c0028a51: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a55: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a59: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a5d: e8 10 ff ff ff call c0028972 <bitmap\_contains>

c0028a62: 83 f0 01 xor eax,0x1

c0028a65: 83 c4 1c add esp,0x1c

c0028a68: c3 ret

c0028a69 <bitmap\_all>:

c0028a69: 83 ec 0c sub esp,0xc

c0028a6c: 6a 00 push 0x0

c0028a6e: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a72: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a76: ff 74 24 1c push DWORD PTR [esp+0x1c]

c0028a7a: e8 f3 fe ff ff call c0028972 <bitmap\_contains>

c0028a7f: 83 f0 01 xor eax,0x1

c0028a82: 83 c4 1c add esp,0x1c

c0028a85: c3 ret

c0028a86 <bitmap\_scan>:

c0028a86: 55 push ebp

c0028a87: 57 push edi

c0028a88: 56 push esi

c0028a89: 53 push ebx

c0028a8a: 83 ec 1c sub esp,0x1c

c0028a8d: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

c0028a91: 8b 5c 24 34 mov ebx,DWORD PTR [esp+0x34]

c0028a95: 8b 7c 24 38 mov edi,DWORD PTR [esp+0x38]

c0028a99: 0f b6 4c 24 3c movzx ecx,BYTE PTR [esp+0x3c]

c0028a9e: 85 f6 test esi,esi

c0028aa0: 75 21 jne c0028ac3 <bitmap\_scan+0x3d>

c0028aa2: 83 ec 0c sub esp,0xc

c0028aa5: 68 01 09 03 c0 push 0xc0030901

c0028aaa: 68 83 ed 02 c0 push 0xc002ed83

c0028aaf: 68 64 e9 02 c0 push 0xc002e964

c0028ab4: 68 30 01 00 00 push 0x130

c0028ab9: 68 d6 0c 03 c0 push 0xc0030cd6

c0028abe: e8 7a ee ff ff call c002793d <debug\_panic>

c0028ac3: 8b 16 mov edx,DWORD PTR [esi]

c0028ac5: 39 da cmp edx,ebx

c0028ac7: 73 21 jae c0028aea <bitmap\_scan+0x64>

c0028ac9: 83 ec 0c sub esp,0xc

c0028acc: 68 01 0d 03 c0 push 0xc0030d01

c0028ad1: 68 83 ed 02 c0 push 0xc002ed83

c0028ad6: 68 64 e9 02 c0 push 0xc002e964

c0028adb: 68 31 01 00 00 push 0x131

c0028ae0: 68 d6 0c 03 c0 push 0xc0030cd6

c0028ae5: e8 53 ee ff ff call c002793d <debug\_panic>

c0028aea: b8 ff ff ff ff mov eax,0xffffffff

c0028aef: 39 fa cmp edx,edi

c0028af1: 72 39 jb c0028b2c <bitmap\_scan+0xa6>

c0028af3: 29 fa sub edx,edi

c0028af5: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c0028af9: 39 d3 cmp ebx,edx

c0028afb: 77 26 ja c0028b23 <bitmap\_scan+0x9d>

c0028afd: 83 f1 01 xor ecx,0x1

c0028b00: 0f b6 e9 movzx ebp,cl

c0028b03: 55 push ebp

c0028b04: 57 push edi

c0028b05: 53 push ebx

c0028b06: 56 push esi

c0028b07: e8 66 fe ff ff call c0028972 <bitmap\_contains>

c0028b0c: 83 c4 10 add esp,0x10

c0028b0f: 84 c0 test al,al

c0028b11: 74 17 je c0028b2a <bitmap\_scan+0xa4>

c0028b13: 83 c3 01 add ebx,0x1

c0028b16: 39 5c 24 0c cmp DWORD PTR [esp+0xc],ebx

c0028b1a: 73 e7 jae c0028b03 <bitmap\_scan+0x7d>

c0028b1c: b8 ff ff ff ff mov eax,0xffffffff

c0028b21: eb 09 jmp c0028b2c <bitmap\_scan+0xa6>

c0028b23: b8 ff ff ff ff mov eax,0xffffffff

c0028b28: eb 02 jmp c0028b2c <bitmap\_scan+0xa6>

c0028b2a: 89 d8 mov eax,ebx

c0028b2c: 83 c4 1c add esp,0x1c

c0028b2f: 5b pop ebx

c0028b30: 5e pop esi

c0028b31: 5f pop edi

c0028b32: 5d pop ebp

c0028b33: c3 ret

c0028b34 <bitmap\_scan\_and\_flip>:

c0028b34: 55 push ebp

c0028b35: 57 push edi

c0028b36: 56 push esi

c0028b37: 53 push ebx

c0028b38: 83 ec 0c sub esp,0xc

c0028b3b: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c0028b3f: 8b 6c 24 28 mov ebp,DWORD PTR [esp+0x28]

c0028b43: 8b 5c 24 2c mov ebx,DWORD PTR [esp+0x2c]

c0028b47: 0f b6 c3 movzx eax,bl

c0028b4a: 50 push eax

c0028b4b: 55 push ebp

c0028b4c: ff 74 24 2c push DWORD PTR [esp+0x2c]

c0028b50: 57 push edi

c0028b51: e8 30 ff ff ff call c0028a86 <bitmap\_scan>

c0028b56: 83 c4 10 add esp,0x10

c0028b59: 89 c6 mov esi,eax

c0028b5b: 83 f8 ff cmp eax,0xffffffff

c0028b5e: 74 12 je c0028b72 <bitmap\_scan\_and\_flip+0x

3e>

c0028b60: 83 f3 01 xor ebx,0x1

c0028b63: 0f b6 db movzx ebx,bl

c0028b66: 53 push ebx

c0028b67: 55 push ebp

c0028b68: 50 push eax

c0028b69: 57 push edi

c0028b6a: e8 8a fb ff ff call c00286f9 <bitmap\_set\_multiple>

c0028b6f: 83 c4 10 add esp,0x10

c0028b72: 89 f0 mov eax,esi

c0028b74: 83 c4 0c add esp,0xc

c0028b77: 5b pop ebx

c0028b78: 5e pop esi

c0028b79: 5f pop edi

c0028b7a: 5d pop ebp

c0028b7b: c3 ret

c0028b7c <bitmap\_file\_size>:

c0028b7c: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0028b80: 8b 00 mov eax,DWORD PTR [eax]

c0028b82: 83 c0 1f add eax,0x1f

c0028b85: c1 e8 05 shr eax,0x5

c0028b88: c1 e0 02 shl eax,0x2

c0028b8b: c3 ret

c0028b8c <bitmap\_read>:

c0028b8c: 56 push esi

c0028b8d: 53 push ebx

c0028b8e: 83 ec 0c sub esp,0xc

c0028b91: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c0028b95: ff 36 push DWORD PTR [esi]

c0028b97: 68 84 0d 03 c0 push 0xc0030d84

c0028b9c: e8 24 d1 ff ff call c0025cc5 <printf>

c0028ba1: 8b 16 mov edx,DWORD PTR [esi]

c0028ba3: 83 c4 10 add esp,0x10

c0028ba6: b8 01 00 00 00 mov eax,0x1

c0028bab: 85 d2 test edx,edx

c0028bad: 74 49 je c0028bf8 <bitmap\_read+0x6c>

c0028baf: 83 c2 1f add edx,0x1f

c0028bb2: c1 ea 05 shr edx,0x5

c0028bb5: 8d 1c 95 00 00 00 00 lea ebx,[edx\*4+0x0]

c0028bbc: 6a 00 push 0x0

c0028bbe: 53 push ebx

c0028bbf: ff 76 04 push DWORD PTR [esi+0x4]

c0028bc2: ff 74 24 20 push DWORD PTR [esp+0x20]

c0028bc6: e8 09 2f 00 00 call c002bad4 <file\_read\_at>

c0028bcb: 83 c4 10 add esp,0x10

c0028bce: 39 c3 cmp ebx,eax

c0028bd0: 0f 94 c0 sete al

c0028bd3: 8b 16 mov edx,DWORD PTR [esi]

c0028bd5: bb ff ff ff ff mov ebx,0xffffffff

c0028bda: 89 d1 mov ecx,edx

c0028bdc: 83 e1 1f and ecx,0x1f

c0028bdf: 74 0a je c0028beb <bitmap\_read+0x5f>

c0028be1: bb 01 00 00 00 mov ebx,0x1

c0028be6: d3 e3 shl ebx,cl

c0028be8: 83 eb 01 sub ebx,0x1

c0028beb: 83 c2 1f add edx,0x1f

c0028bee: c1 ea 05 shr edx,0x5

c0028bf1: 8b 4e 04 mov ecx,DWORD PTR [esi+0x4]

c0028bf4: 21 5c 91 fc and DWORD PTR [ecx+edx\*4-0x4],ebx

c0028bf8: 83 c4 04 add esp,0x4

c0028bfb: 5b pop ebx

c0028bfc: 5e pop esi

c0028bfd: c3 ret

c0028bfe <bitmap\_write>:

c0028bfe: 57 push edi

c0028bff: 56 push esi

c0028c00: 53 push ebx

c0028c01: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c0028c05: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0028c09: 83 ec 08 sub esp,0x8

c0028c0c: 56 push esi

c0028c0d: 68 2f 0d 03 c0 push 0xc0030d2f

c0028c12: e8 ae d0 ff ff call c0025cc5 <printf>

c0028c17: 8b 07 mov eax,DWORD PTR [edi]

c0028c19: 8d 58 1f lea ebx,[eax+0x1f]

c0028c1c: c1 eb 05 shr ebx,0x5

c0028c1f: c1 e3 02 shl ebx,0x2

c0028c22: 83 c4 08 add esp,0x8

c0028c25: 53 push ebx

c0028c26: 68 47 0d 03 c0 push 0xc0030d47

c0028c2b: e8 95 d0 ff ff call c0025cc5 <printf>

c0028c30: 6a 00 push 0x0

c0028c32: 53 push ebx

c0028c33: ff 77 04 push DWORD PTR [edi+0x4]

c0028c36: 56 push esi

c0028c37: e8 d8 2e 00 00 call c002bb14 <file\_write\_at>

c0028c3c: 89 c6 mov esi,eax

c0028c3e: 83 c4 18 add esp,0x18

c0028c41: 50 push eax

c0028c42: 68 50 0d 03 c0 push 0xc0030d50

c0028c47: e8 79 d0 ff ff call c0025cc5 <printf>

c0028c4c: 83 c4 10 add esp,0x10

c0028c4f: 39 f3 cmp ebx,esi

c0028c51: 0f 94 c0 sete al

c0028c54: 5b pop ebx

c0028c55: 5e pop esi

c0028c56: 5f pop edi

c0028c57: c3 ret

c0028c58 <bitmap\_dump>:

c0028c58: 83 ec 0c sub esp,0xc

c0028c5b: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c0028c5f: 6a 00 push 0x0

c0028c61: 8b 02 mov eax,DWORD PTR [edx]

c0028c63: 83 c0 1f add eax,0x1f

c0028c66: c1 e8 05 shr eax,0x5

c0028c69: c1 e0 02 shl eax,0x2

c0028c6c: 50 push eax

c0028c6d: ff 72 04 push DWORD PTR [edx+0x4]

c0028c70: 6a 00 push 0x0

c0028c72: e8 78 d7 ff ff call c00263ef <hex\_dump>

c0028c77: 83 c4 1c add esp,0x1c

c0028c7a: c3 ret

c0028c7b <find\_bucket>:

c0028c7b: 53 push ebx

c0028c7c: 83 ec 10 sub esp,0x10

c0028c7f: 89 c3 mov ebx,eax

c0028c81: ff 70 14 push DWORD PTR [eax+0x14]

c0028c84: 52 push edx

c0028c85: ff 50 0c call DWORD PTR [eax+0xc]

c0028c88: 8b 4b 04 mov ecx,DWORD PTR [ebx+0x4]

c0028c8b: 8d 51 ff lea edx,[ecx-0x1]

c0028c8e: 21 d0 and eax,edx

c0028c90: c1 e0 04 shl eax,0x4

c0028c93: 03 43 08 add eax,DWORD PTR [ebx+0x8]

c0028c96: 83 c4 18 add esp,0x18

c0028c99: 5b pop ebx

c0028c9a: c3 ret

c0028c9b <find\_elem>:

c0028c9b: 55 push ebp

c0028c9c: 57 push edi

c0028c9d: 56 push esi

c0028c9e: 53 push ebx

c0028c9f: 83 ec 18 sub esp,0x18

c0028ca2: 89 c6 mov esi,eax

c0028ca4: 89 d5 mov ebp,edx

c0028ca6: 89 cf mov edi,ecx

c0028ca8: 52 push edx

c0028ca9: e8 79 ed ff ff call c0027a27 <list\_begin>

c0028cae: 89 c3 mov ebx,eax

c0028cb0: 83 c4 10 add esp,0x10

c0028cb3: eb 32 jmp c0028ce7 <find\_elem+0x4c>

c0028cb5: 83 ec 04 sub esp,0x4

c0028cb8: ff 76 14 push DWORD PTR [esi+0x14]

c0028cbb: 57 push edi

c0028cbc: 53 push ebx

c0028cbd: ff 56 10 call DWORD PTR [esi+0x10]

c0028cc0: 83 c4 10 add esp,0x10

c0028cc3: 84 c0 test al,al

c0028cc5: 75 12 jne c0028cd9 <find\_elem+0x3e>

c0028cc7: 83 ec 04 sub esp,0x4

c0028cca: ff 76 14 push DWORD PTR [esi+0x14]

c0028ccd: 53 push ebx

c0028cce: 57 push edi

c0028ccf: ff 56 10 call DWORD PTR [esi+0x10]

c0028cd2: 83 c4 10 add esp,0x10

c0028cd5: 84 c0 test al,al

c0028cd7: 74 25 je c0028cfe <find\_elem+0x63>

c0028cd9: 83 ec 0c sub esp,0xc

c0028cdc: 53 push ebx

c0028cdd: e8 75 ed ff ff call c0027a57 <list\_next>

c0028ce2: 89 c3 mov ebx,eax

c0028ce4: 83 c4 10 add esp,0x10

c0028ce7: 83 ec 0c sub esp,0xc

c0028cea: 55 push ebp

c0028ceb: e8 ad ed ff ff call c0027a9d <list\_end>

c0028cf0: 83 c4 10 add esp,0x10

c0028cf3: 39 c3 cmp ebx,eax

c0028cf5: 75 be jne c0028cb5 <find\_elem+0x1a>

c0028cf7: b8 00 00 00 00 mov eax,0x0

c0028cfc: eb 02 jmp c0028d00 <find\_elem+0x65>

c0028cfe: 89 d8 mov eax,ebx

c0028d00: 83 c4 0c add esp,0xc

c0028d03: 5b pop ebx

c0028d04: 5e pop esi

c0028d05: 5f pop edi

c0028d06: 5d pop ebp

c0028d07: c3 ret

c0028d08 <rehash>:

c0028d08: 55 push ebp

c0028d09: 57 push edi

c0028d0a: 56 push esi

c0028d0b: 53 push ebx

c0028d0c: 83 ec 2c sub esp,0x2c

c0028d0f: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c0028d13: 85 c0 test eax,eax

c0028d15: 75 21 jne c0028d38 <rehash+0x30>

c0028d17: 83 ec 0c sub esp,0xc

c0028d1a: 68 a4 0d 03 c0 push 0xc0030da4

c0028d1f: 68 83 ed 02 c0 push 0xc002ed83

c0028d24: 68 20 ea 02 c0 push 0xc002ea20

c0028d29: 68 78 01 00 00 push 0x178

c0028d2e: 68 ae 0d 03 c0 push 0xc0030dae

c0028d33: e8 05 ec ff ff call c002793d <debug\_panic>

c0028d38: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c0028d3c: 8b 48 04 mov ecx,DWORD PTR [eax+0x4]

c0028d3f: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

c0028d43: 8b 00 mov eax,DWORD PTR [eax]

c0028d45: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

c0028d49: 89 c3 mov ebx,eax

c0028d4b: d1 eb shr ebx,1

c0028d4d: 83 fb 03 cmp ebx,0x3

c0028d50: b8 04 00 00 00 mov eax,0x4

c0028d55: 0f 46 d8 cmovbe ebx,eax

c0028d58: eb 05 jmp c0028d5f <rehash+0x57>

c0028d5a: 8d 43 ff lea eax,[ebx-0x1]

c0028d5d: 21 c3 and ebx,eax

c0028d5f: 85 db test ebx,ebx

c0028d61: 74 f7 je c0028d5a <rehash+0x52>

c0028d63: 8d 43 ff lea eax,[ebx-0x1]

c0028d66: 85 d8 test eax,ebx

c0028d68: 75 f0 jne c0028d5a <rehash+0x52>

c0028d6a: 3b 5c 24 18 cmp ebx,DWORD PTR [esp+0x18]

c0028d6e: 0f 84 dc 00 00 00 je c0028e50 <rehash+0x148>

c0028d74: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c0028d78: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c0028d7b: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c0028d7f: 83 ec 0c sub esp,0xc

c0028d82: 89 d8 mov eax,ebx

c0028d84: c1 e0 04 shl eax,0x4

c0028d87: 50 push eax

c0028d88: e8 67 a3 ff ff call c00230f4 <malloc>

c0028d8d: 89 c5 mov ebp,eax

c0028d8f: 83 c4 10 add esp,0x10

c0028d92: 85 c0 test eax,eax

c0028d94: 0f 84 b6 00 00 00 je c0028e50 <rehash+0x148>

c0028d9a: 89 c7 mov edi,eax

c0028d9c: be 00 00 00 00 mov esi,0x0

c0028da1: 83 ec 0c sub esp,0xc

c0028da4: 57 push edi

c0028da5: e8 3a ec ff ff call c00279e4 <list\_init>

c0028daa: 83 c6 01 add esi,0x1

c0028dad: 83 c7 10 add edi,0x10

c0028db0: 83 c4 10 add esp,0x10

c0028db3: 39 f3 cmp ebx,esi

c0028db5: 75 ea jne c0028da1 <rehash+0x99>

c0028db7: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c0028dbb: 89 68 08 mov DWORD PTR [eax+0x8],ebp

c0028dbe: 89 58 04 mov DWORD PTR [eax+0x4],ebx

c0028dc1: 83 7c 24 18 00 cmp DWORD PTR [esp+0x18],0x0

c0028dc6: 74 79 je c0028e41 <rehash+0x139>

c0028dc8: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c0028dcc: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

c0028dd0: c7 44 24 10 00 00 00 mov DWORD PTR [esp+0x10],0x0

c0028dd7: 00

c0028dd8: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0028ddc: 89 c5 mov ebp,eax

c0028dde: 83 ec 0c sub esp,0xc

c0028de1: 50 push eax

c0028de2: e8 40 ec ff ff call c0027a27 <list\_begin>

c0028de7: 89 c3 mov ebx,eax

c0028de9: 83 c4 10 add esp,0x10

c0028dec: eb 2f jmp c0028e1d <rehash+0x115>

c0028dee: 89 da mov edx,ebx

c0028df0: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c0028df4: e8 82 fe ff ff call c0028c7b <find\_bucket>

c0028df9: 89 c7 mov edi,eax

c0028dfb: 83 ec 0c sub esp,0xc

c0028dfe: 53 push ebx

c0028dff: e8 53 ec ff ff call c0027a57 <list\_next>

c0028e04: 89 c6 mov esi,eax

c0028e06: 89 1c 24 mov DWORD PTR [esp],ebx

c0028e09: e8 97 f0 ff ff call c0027ea5 <list\_remove>

c0028e0e: 83 c4 08 add esp,0x8

c0028e11: 53 push ebx

c0028e12: 57 push edi

c0028e13: e8 53 f0 ff ff call c0027e6b <list\_push\_front>

c0028e18: 83 c4 10 add esp,0x10

c0028e1b: 89 f3 mov ebx,esi

c0028e1d: 83 ec 0c sub esp,0xc

c0028e20: 55 push ebp

c0028e21: e8 77 ec ff ff call c0027a9d <list\_end>

c0028e26: 83 c4 10 add esp,0x10

c0028e29: 39 c3 cmp ebx,eax

c0028e2b: 75 c1 jne c0028dee <rehash+0xe6>

c0028e2d: 83 44 24 10 01 add DWORD PTR [esp+0x10],0x1

c0028e32: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0028e36: 83 44 24 14 10 add DWORD PTR [esp+0x14],0x10

c0028e3b: 39 44 24 18 cmp DWORD PTR [esp+0x18],eax

c0028e3f: 75 97 jne c0028dd8 <rehash+0xd0>

c0028e41: 83 ec 0c sub esp,0xc

c0028e44: ff 74 24 28 push DWORD PTR [esp+0x28]

c0028e48: e8 38 a4 ff ff call c0023285 <free>

c0028e4d: 83 c4 10 add esp,0x10

c0028e50: 83 c4 2c add esp,0x2c

c0028e53: 5b pop ebx

c0028e54: 5e pop esi

c0028e55: 5f pop edi

c0028e56: 5d pop ebp

c0028e57: c3 ret

c0028e58 <hash\_clear>:

c0028e58: 55 push ebp

c0028e59: 57 push edi

c0028e5a: 56 push esi

c0028e5b: 53 push ebx

c0028e5c: 83 ec 0c sub esp,0xc

c0028e5f: 8b 74 24 20 mov esi,DWORD PTR [esp+0x20]

c0028e63: 8b 7c 24 24 mov edi,DWORD PTR [esp+0x24]

c0028e67: 83 7e 04 00 cmp DWORD PTR [esi+0x4],0x0

c0028e6b: 74 4c je c0028eb9 <hash\_clear+0x61>

c0028e6d: bd 00 00 00 00 mov ebp,0x0

c0028e72: 89 eb mov ebx,ebp

c0028e74: c1 e3 04 shl ebx,0x4

c0028e77: 03 5e 08 add ebx,DWORD PTR [esi+0x8]

c0028e7a: 85 ff test edi,edi

c0028e7c: 75 17 jne c0028e95 <hash\_clear+0x3d>

c0028e7e: eb 25 jmp c0028ea5 <hash\_clear+0x4d>

c0028e80: 83 ec 0c sub esp,0xc

c0028e83: 53 push ebx

c0028e84: e8 0b f1 ff ff call c0027f94 <list\_pop\_front>

c0028e89: 83 c4 08 add esp,0x8

c0028e8c: ff 76 14 push DWORD PTR [esi+0x14]

c0028e8f: 50 push eax

c0028e90: ff d7 call edi

c0028e92: 83 c4 10 add esp,0x10

c0028e95: 83 ec 0c sub esp,0xc

c0028e98: 53 push ebx

c0028e99: e8 94 f0 ff ff call c0027f32 <list\_empty>

c0028e9e: 83 c4 10 add esp,0x10

c0028ea1: 84 c0 test al,al

c0028ea3: 74 db je c0028e80 <hash\_clear+0x28>

c0028ea5: 83 ec 0c sub esp,0xc

c0028ea8: 53 push ebx

c0028ea9: e8 36 eb ff ff call c00279e4 <list\_init>

c0028eae: 83 c5 01 add ebp,0x1

c0028eb1: 83 c4 10 add esp,0x10

c0028eb4: 39 6e 04 cmp DWORD PTR [esi+0x4],ebp

c0028eb7: 77 b9 ja c0028e72 <hash\_clear+0x1a>

c0028eb9: c7 06 00 00 00 00 mov DWORD PTR [esi],0x0

c0028ebf: 83 c4 0c add esp,0xc

c0028ec2: 5b pop ebx

c0028ec3: 5e pop esi

c0028ec4: 5f pop edi

c0028ec5: 5d pop ebp

c0028ec6: c3 ret

c0028ec7 <hash\_init>:

c0028ec7: 53 push ebx

c0028ec8: 83 ec 14 sub esp,0x14

c0028ecb: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c0028ecf: c7 03 00 00 00 00 mov DWORD PTR [ebx],0x0

c0028ed5: c7 43 04 04 00 00 00 mov DWORD PTR [ebx+0x4],0x4

c0028edc: 6a 40 push 0x40

c0028ede: e8 11 a2 ff ff call c00230f4 <malloc>

c0028ee3: 89 c2 mov edx,eax

c0028ee5: 89 43 08 mov DWORD PTR [ebx+0x8],eax

c0028ee8: 8b 44 24 24 mov eax,DWORD PTR [esp+0x24]

c0028eec: 89 43 0c mov DWORD PTR [ebx+0xc],eax

c0028eef: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0028ef3: 89 43 10 mov DWORD PTR [ebx+0x10],eax

c0028ef6: 8b 44 24 2c mov eax,DWORD PTR [esp+0x2c]

c0028efa: 89 43 14 mov DWORD PTR [ebx+0x14],eax

c0028efd: 83 c4 10 add esp,0x10

c0028f00: b8 00 00 00 00 mov eax,0x0

c0028f05: 85 d2 test edx,edx

c0028f07: 74 13 je c0028f1c <hash\_init+0x55>

c0028f09: 83 ec 08 sub esp,0x8

c0028f0c: 6a 00 push 0x0

c0028f0e: 53 push ebx

c0028f0f: e8 44 ff ff ff call c0028e58 <hash\_clear>

c0028f14: 83 c4 10 add esp,0x10

c0028f17: b8 01 00 00 00 mov eax,0x1

c0028f1c: 83 c4 08 add esp,0x8

c0028f1f: 5b pop ebx

c0028f20: c3 ret

c0028f21 <hash\_destroy>:

c0028f21: 53 push ebx

c0028f22: 83 ec 08 sub esp,0x8

c0028f25: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0028f29: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0028f2d: 85 c0 test eax,eax

c0028f2f: 74 0d je c0028f3e <hash\_destroy+0x1d>

c0028f31: 83 ec 08 sub esp,0x8

c0028f34: 50 push eax

c0028f35: 53 push ebx

c0028f36: e8 1d ff ff ff call c0028e58 <hash\_clear>

c0028f3b: 83 c4 10 add esp,0x10

c0028f3e: 83 ec 0c sub esp,0xc

c0028f41: ff 73 08 push DWORD PTR [ebx+0x8]

c0028f44: e8 3c a3 ff ff call c0023285 <free>

c0028f49: 83 c4 18 add esp,0x18

c0028f4c: 5b pop ebx

c0028f4d: c3 ret

c0028f4e <hash\_insert>:

c0028f4e: 55 push ebp

c0028f4f: 57 push edi

c0028f50: 56 push esi

c0028f51: 53 push ebx

c0028f52: 83 ec 0c sub esp,0xc

c0028f55: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c0028f59: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

c0028f5d: 89 f2 mov edx,esi

c0028f5f: 89 d8 mov eax,ebx

c0028f61: e8 15 fd ff ff call c0028c7b <find\_bucket>

c0028f66: 89 c5 mov ebp,eax

c0028f68: 89 f1 mov ecx,esi

c0028f6a: 89 c2 mov edx,eax

c0028f6c: 89 d8 mov eax,ebx

c0028f6e: e8 28 fd ff ff call c0028c9b <find\_elem>

c0028f73: 89 c7 mov edi,eax

c0028f75: 85 c0 test eax,eax

c0028f77: 75 10 jne c0028f89 <hash\_insert+0x3b>

c0028f79: 83 03 01 add DWORD PTR [ebx],0x1

c0028f7c: 83 ec 08 sub esp,0x8

c0028f7f: 56 push esi

c0028f80: 55 push ebp

c0028f81: e8 e5 ee ff ff call c0027e6b <list\_push\_front>

c0028f86: 83 c4 10 add esp,0x10

c0028f89: 89 d8 mov eax,ebx

c0028f8b: e8 78 fd ff ff call c0028d08 <rehash>

c0028f90: 89 f8 mov eax,edi

c0028f92: 83 c4 0c add esp,0xc

c0028f95: 5b pop ebx

c0028f96: 5e pop esi

c0028f97: 5f pop edi

c0028f98: 5d pop ebp

c0028f99: c3 ret

c0028f9a <hash\_replace>:

c0028f9a: 55 push ebp

c0028f9b: 57 push edi

c0028f9c: 56 push esi

c0028f9d: 53 push ebx

c0028f9e: 83 ec 0c sub esp,0xc

c0028fa1: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c0028fa5: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

c0028fa9: 89 f2 mov edx,esi

c0028fab: 89 d8 mov eax,ebx

c0028fad: e8 c9 fc ff ff call c0028c7b <find\_bucket>

c0028fb2: 89 c5 mov ebp,eax

c0028fb4: 89 f1 mov ecx,esi

c0028fb6: 89 c2 mov edx,eax

c0028fb8: 89 d8 mov eax,ebx

c0028fba: e8 dc fc ff ff call c0028c9b <find\_elem>

c0028fbf: 89 c7 mov edi,eax

c0028fc1: 85 c0 test eax,eax

c0028fc3: 74 0f je c0028fd4 <hash\_replace+0x3a>

c0028fc5: 83 2b 01 sub DWORD PTR [ebx],0x1

c0028fc8: 83 ec 0c sub esp,0xc

c0028fcb: 50 push eax

c0028fcc: e8 d4 ee ff ff call c0027ea5 <list\_remove>

c0028fd1: 83 c4 10 add esp,0x10

c0028fd4: 83 03 01 add DWORD PTR [ebx],0x1

c0028fd7: 83 ec 08 sub esp,0x8

c0028fda: 56 push esi

c0028fdb: 55 push ebp

c0028fdc: e8 8a ee ff ff call c0027e6b <list\_push\_front>

c0028fe1: 89 d8 mov eax,ebx

c0028fe3: e8 20 fd ff ff call c0028d08 <rehash>

c0028fe8: 89 f8 mov eax,edi

c0028fea: 83 c4 1c add esp,0x1c

c0028fed: 5b pop ebx

c0028fee: 5e pop esi

c0028fef: 5f pop edi

c0028ff0: 5d pop ebp

c0028ff1: c3 ret

c0028ff2 <hash\_find>:

c0028ff2: 56 push esi

c0028ff3: 53 push ebx

c0028ff4: 83 ec 04 sub esp,0x4

c0028ff7: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0028ffb: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0028fff: 89 f2 mov edx,esi

c0029001: 89 d8 mov eax,ebx

c0029003: e8 73 fc ff ff call c0028c7b <find\_bucket>

c0029008: 89 f1 mov ecx,esi

c002900a: 89 c2 mov edx,eax

c002900c: 89 d8 mov eax,ebx

c002900e: e8 88 fc ff ff call c0028c9b <find\_elem>

c0029013: 83 c4 04 add esp,0x4

c0029016: 5b pop ebx

c0029017: 5e pop esi

c0029018: c3 ret

c0029019 <hash\_delete>:

c0029019: 56 push esi

c002901a: 53 push ebx

c002901b: 83 ec 04 sub esp,0x4

c002901e: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0029022: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c0029026: 89 f2 mov edx,esi

c0029028: 89 d8 mov eax,ebx

c002902a: e8 4c fc ff ff call c0028c7b <find\_bucket>

c002902f: 89 f1 mov ecx,esi

c0029031: 89 c2 mov edx,eax

c0029033: 89 d8 mov eax,ebx

c0029035: e8 61 fc ff ff call c0028c9b <find\_elem>

c002903a: 89 c6 mov esi,eax

c002903c: 85 c0 test eax,eax

c002903e: 74 16 je c0029056 <hash\_delete+0x3d>

c0029040: 83 2b 01 sub DWORD PTR [ebx],0x1

c0029043: 83 ec 0c sub esp,0xc

c0029046: 50 push eax

c0029047: e8 59 ee ff ff call c0027ea5 <list\_remove>

c002904c: 89 d8 mov eax,ebx

c002904e: e8 b5 fc ff ff call c0028d08 <rehash>

c0029053: 83 c4 10 add esp,0x10

c0029056: 89 f0 mov eax,esi

c0029058: 83 c4 04 add esp,0x4

c002905b: 5b pop ebx

c002905c: 5e pop esi

c002905d: c3 ret

c002905e <hash\_apply>:

c002905e: 55 push ebp

c002905f: 57 push edi

c0029060: 56 push esi

c0029061: 53 push ebx

c0029062: 83 ec 1c sub esp,0x1c

c0029065: 8b 6c 24 30 mov ebp,DWORD PTR [esp+0x30]

c0029069: 83 7c 24 34 00 cmp DWORD PTR [esp+0x34],0x0

c002906e: 74 10 je c0029080 <hash\_apply+0x22>

c0029070: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

c0029077: 00

c0029078: 83 7d 04 00 cmp DWORD PTR [ebp+0x4],0x0

c002907c: 75 23 jne c00290a1 <hash\_apply+0x43>

c002907e: eb 74 jmp c00290f4 <hash\_apply+0x96>

c0029080: 83 ec 0c sub esp,0xc

c0029083: 68 c6 0d 03 c0 push 0xc0030dc6

c0029088: 68 83 ed 02 c0 push 0xc002ed83

c002908d: 68 14 ea 02 c0 push 0xc002ea14

c0029092: 68 af 00 00 00 push 0xaf

c0029097: 68 ae 0d 03 c0 push 0xc0030dae

c002909c: e8 9c e8 ff ff call c002793d <debug\_panic>

c00290a1: 8b 7c 24 0c mov edi,DWORD PTR [esp+0xc]

c00290a5: c1 e7 04 shl edi,0x4

c00290a8: 03 7d 08 add edi,DWORD PTR [ebp+0x8]

c00290ab: 83 ec 0c sub esp,0xc

c00290ae: 57 push edi

c00290af: e8 73 e9 ff ff call c0027a27 <list\_begin>

c00290b4: 89 c3 mov ebx,eax

c00290b6: 83 c4 10 add esp,0x10

c00290b9: eb 1b jmp c00290d6 <hash\_apply+0x78>

c00290bb: 83 ec 0c sub esp,0xc

c00290be: 53 push ebx

c00290bf: e8 93 e9 ff ff call c0027a57 <list\_next>

c00290c4: 89 c6 mov esi,eax

c00290c6: 83 c4 08 add esp,0x8

c00290c9: ff 75 14 push DWORD PTR [ebp+0x14]

c00290cc: 53 push ebx

c00290cd: ff 54 24 44 call DWORD PTR [esp+0x44]

c00290d1: 83 c4 10 add esp,0x10

c00290d4: 89 f3 mov ebx,esi

c00290d6: 83 ec 0c sub esp,0xc

c00290d9: 57 push edi

c00290da: e8 be e9 ff ff call c0027a9d <list\_end>

c00290df: 83 c4 10 add esp,0x10

c00290e2: 39 c3 cmp ebx,eax

c00290e4: 75 d5 jne c00290bb <hash\_apply+0x5d>

c00290e6: 83 44 24 0c 01 add DWORD PTR [esp+0xc],0x1

c00290eb: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c00290ef: 39 45 04 cmp DWORD PTR [ebp+0x4],eax

c00290f2: 77 ad ja c00290a1 <hash\_apply+0x43>

c00290f4: 83 c4 1c add esp,0x1c

c00290f7: 5b pop ebx

c00290f8: 5e pop esi

c00290f9: 5f pop edi

c00290fa: 5d pop ebp

c00290fb: c3 ret

c00290fc <hash\_first>:

c00290fc: 53 push ebx

c00290fd: 83 ec 08 sub esp,0x8

c0029100: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0029104: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0029108: 85 db test ebx,ebx

c002910a: 75 21 jne c002912d <hash\_first+0x31>

c002910c: 83 ec 0c sub esp,0xc

c002910f: 68 d5 0d 03 c0 push 0xc0030dd5

c0029114: 68 83 ed 02 c0 push 0xc002ed83

c0029119: 68 08 ea 02 c0 push 0xc002ea08

c002911e: 68 d2 00 00 00 push 0xd2

c0029123: 68 ae 0d 03 c0 push 0xc0030dae

c0029128: e8 10 e8 ff ff call c002793d <debug\_panic>

c002912d: 85 c0 test eax,eax

c002912f: 75 21 jne c0029152 <hash\_first+0x56>

c0029131: 83 ec 0c sub esp,0xc

c0029134: 68 a4 0d 03 c0 push 0xc0030da4

c0029139: 68 83 ed 02 c0 push 0xc002ed83

c002913e: 68 08 ea 02 c0 push 0xc002ea08

c0029143: 68 d3 00 00 00 push 0xd3

c0029148: 68 ae 0d 03 c0 push 0xc0030dae

c002914d: e8 eb e7 ff ff call c002793d <debug\_panic>

c0029152: 89 03 mov DWORD PTR [ebx],eax

c0029154: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c0029157: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002915a: 83 ec 0c sub esp,0xc

c002915d: 50 push eax

c002915e: e8 42 eb ff ff call c0027ca5 <list\_head>

c0029163: 89 43 08 mov DWORD PTR [ebx+0x8],eax

c0029166: 83 c4 18 add esp,0x18

c0029169: 5b pop ebx

c002916a: c3 ret

c002916b <hash\_next>:

c002916b: 56 push esi

c002916c: 53 push ebx

c002916d: 83 ec 04 sub esp,0x4

c0029170: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0029174: 85 db test ebx,ebx

c0029176: 75 21 jne c0029199 <hash\_next+0x2e>

c0029178: 83 ec 0c sub esp,0xc

c002917b: 68 d5 0d 03 c0 push 0xc0030dd5

c0029180: 68 83 ed 02 c0 push 0xc002ed83

c0029185: 68 fc e9 02 c0 push 0xc002e9fc

c002918a: 68 e5 00 00 00 push 0xe5

c002918f: 68 ae 0d 03 c0 push 0xc0030dae

c0029194: e8 a4 e7 ff ff call c002793d <debug\_panic>

c0029199: 83 ec 0c sub esp,0xc

c002919c: ff 73 08 push DWORD PTR [ebx+0x8]

c002919f: e8 b3 e8 ff ff call c0027a57 <list\_next>

c00291a4: 89 43 08 mov DWORD PTR [ebx+0x8],eax

c00291a7: 83 c4 10 add esp,0x10

c00291aa: eb 30 jmp c00291dc <hash\_next+0x71>

c00291ac: 8b 43 04 mov eax,DWORD PTR [ebx+0x4]

c00291af: 8d 50 10 lea edx,[eax+0x10]

c00291b2: 89 53 04 mov DWORD PTR [ebx+0x4],edx

c00291b5: 8b 0b mov ecx,DWORD PTR [ebx]

c00291b7: 8b 41 04 mov eax,DWORD PTR [ecx+0x4]

c00291ba: c1 e0 04 shl eax,0x4

c00291bd: 03 41 08 add eax,DWORD PTR [ecx+0x8]

c00291c0: 39 c2 cmp edx,eax

c00291c2: 72 09 jb c00291cd <hash\_next+0x62>

c00291c4: c7 43 08 00 00 00 00 mov DWORD PTR [ebx+0x8],0x0

c00291cb: eb 24 jmp c00291f1 <hash\_next+0x86>

c00291cd: 83 ec 0c sub esp,0xc

c00291d0: 52 push edx

c00291d1: e8 51 e8 ff ff call c0027a27 <list\_begin>

c00291d6: 89 43 08 mov DWORD PTR [ebx+0x8],eax

c00291d9: 83 c4 10 add esp,0x10

c00291dc: 8b 73 08 mov esi,DWORD PTR [ebx+0x8]

c00291df: 83 ec 0c sub esp,0xc

c00291e2: ff 73 04 push DWORD PTR [ebx+0x4]

c00291e5: e8 b3 e8 ff ff call c0027a9d <list\_end>

c00291ea: 83 c4 10 add esp,0x10

c00291ed: 39 c6 cmp esi,eax

c00291ef: 74 bb je c00291ac <hash\_next+0x41>

c00291f1: 8b 43 08 mov eax,DWORD PTR [ebx+0x8]

c00291f4: 83 c4 04 add esp,0x4

c00291f7: 5b pop ebx

c00291f8: 5e pop esi

c00291f9: c3 ret

c00291fa <hash\_cur>:

c00291fa: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c00291fe: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c0029201: c3 ret

c0029202 <hash\_size>:

c0029202: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0029206: 8b 00 mov eax,DWORD PTR [eax]

c0029208: c3 ret

c0029209 <hash\_empty>:

c0029209: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002920d: 83 38 00 cmp DWORD PTR [eax],0x0

c0029210: 0f 94 c0 sete al

c0029213: c3 ret

c0029214 <hash\_bytes>:

c0029214: 53 push ebx

c0029215: 83 ec 08 sub esp,0x8

c0029218: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c002921c: 8b 4c 24 14 mov ecx,DWORD PTR [esp+0x14]

c0029220: 85 d2 test edx,edx

c0029222: 74 0e je c0029232 <hash\_bytes+0x1e>

c0029224: 8d 1c 0a lea ebx,[edx+ecx\*1]

c0029227: b8 c5 9d 1c 81 mov eax,0x811c9dc5

c002922c: 85 c9 test ecx,ecx

c002922e: 75 23 jne c0029253 <hash\_bytes+0x3f>

c0029230: eb 34 jmp c0029266 <hash\_bytes+0x52>

c0029232: 83 ec 0c sub esp,0xc

c0029235: 68 df 0d 03 c0 push 0xc0030ddf

c002923a: 68 83 ed 02 c0 push 0xc002ed83

c002923f: 68 f0 e9 02 c0 push 0xc002e9f0

c0029244: 68 18 01 00 00 push 0x118

c0029249: 68 ae 0d 03 c0 push 0xc0030dae

c002924e: e8 ea e6 ff ff call c002793d <debug\_panic>

c0029253: 69 c0 93 01 00 01 imul eax,eax,0x1000193

c0029259: 83 c2 01 add edx,0x1

c002925c: 0f b6 4a ff movzx ecx,BYTE PTR [edx-0x1]

c0029260: 31 c8 xor eax,ecx

c0029262: 39 da cmp edx,ebx

c0029264: 75 ed jne c0029253 <hash\_bytes+0x3f>

c0029266: 83 c4 08 add esp,0x8

c0029269: 5b pop ebx

c002926a: c3 ret

c002926b <hash\_string>:

c002926b: 83 ec 0c sub esp,0xc

c002926e: 8b 4c 24 10 mov ecx,DWORD PTR [esp+0x10]

c0029272: 85 c9 test ecx,ecx

c0029274: 74 0e je c0029284 <hash\_string+0x19>

c0029276: 0f b6 11 movzx edx,BYTE PTR [ecx]

c0029279: b8 c5 9d 1c 81 mov eax,0x811c9dc5

c002927e: 84 d2 test dl,dl

c0029280: 75 23 jne c00292a5 <hash\_string+0x3a>

c0029282: eb 36 jmp c00292ba <hash\_string+0x4f>

c0029284: 83 ec 0c sub esp,0xc

c0029287: 68 3e 09 03 c0 push 0xc003093e

c002928c: 68 83 ed 02 c0 push 0xc002ed83

c0029291: 68 e4 e9 02 c0 push 0xc002e9e4

c0029296: 68 2d 01 00 00 push 0x12d

c002929b: 68 ae 0d 03 c0 push 0xc0030dae

c00292a0: e8 98 e6 ff ff call c002793d <debug\_panic>

c00292a5: 69 c0 93 01 00 01 imul eax,eax,0x1000193

c00292ab: 83 c1 01 add ecx,0x1

c00292ae: 0f b6 d2 movzx edx,dl

c00292b1: 31 d0 xor eax,edx

c00292b3: 0f b6 11 movzx edx,BYTE PTR [ecx]

c00292b6: 84 d2 test dl,dl

c00292b8: 75 eb jne c00292a5 <hash\_string+0x3a>

c00292ba: 83 c4 0c add esp,0xc

c00292bd: c3 ret

c00292be <hash\_int>:

c00292be: 83 ec 14 sub esp,0x14

c00292c1: 6a 04 push 0x4

c00292c3: 8d 44 24 1c lea eax,[esp+0x1c]

c00292c7: 50 push eax

c00292c8: e8 47 ff ff ff call c0029214 <hash\_bytes>

c00292cd: 83 c4 1c add esp,0x1c

c00292d0: c3 ret

c00292d1 <putchar\_have\_lock>:

c00292d1: 53 push ebx

c00292d2: 83 ec 08 sub esp,0x8

c00292d5: 89 c3 mov ebx,eax

c00292d7: e8 e5 83 ff ff call c00216c1 <intr\_context>

c00292dc: 84 c0 test al,al

c00292de: 75 3e jne c002931e <putchar\_have\_lock+0x4d>

c00292e0: 80 3d 4c b7 03 c0 00 cmp BYTE PTR ds:0xc003b74c,0x0

c00292e7: 74 35 je c002931e <putchar\_have\_lock+0x4d>

c00292e9: 83 ec 0c sub esp,0xc

c00292ec: 68 60 b7 03 c0 push 0xc003b760

c00292f1: e8 4f 94 ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c00292f6: 83 c4 10 add esp,0x10

c00292f9: 84 c0 test al,al

c00292fb: 75 21 jne c002931e <putchar\_have\_lock+0x4d>

c00292fd: 83 ec 0c sub esp,0xc

c0029300: 68 ec 0d 03 c0 push 0xc0030dec

c0029305: 68 83 ed 02 c0 push 0xc002ed83

c002930a: 68 28 ea 02 c0 push 0xc002ea28

c002930f: 68 bb 00 00 00 push 0xbb

c0029314: 68 31 0e 03 c0 push 0xc0030e31

c0029319: e8 1f e6 ff ff call c002793d <debug\_panic>

c002931e: 83 05 40 b7 03 c0 01 add DWORD PTR ds:0xc003b740,0x1

c0029325: 83 15 44 b7 03 c0 00 adc DWORD PTR ds:0xc003b744,0x0

c002932c: 0f b6 db movzx ebx,bl

c002932f: 83 ec 0c sub esp,0xc

c0029332: 53 push ebx

c0029333: e8 1b ac ff ff call c0023f53 <serial\_putc>

c0029338: 89 1c 24 mov DWORD PTR [esp],ebx

c002933b: e8 54 a8 ff ff call c0023b94 <vga\_putc>

c0029340: 83 c4 18 add esp,0x18

c0029343: 5b pop ebx

c0029344: c3 ret

c0029345 <vprintf\_helper>:

c0029345: 83 ec 0c sub esp,0xc

c0029348: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002934c: 83 00 01 add DWORD PTR [eax],0x1

c002934f: 0f b6 44 24 10 movzx eax,BYTE PTR [esp+0x10]

c0029354: e8 78 ff ff ff call c00292d1 <putchar\_have\_lock>

c0029359: 83 c4 0c add esp,0xc

c002935c: c3 ret

c002935d <acquire\_console>:

c002935d: 83 ec 0c sub esp,0xc

c0029360: e8 5c 83 ff ff call c00216c1 <intr\_context>

c0029365: 84 c0 test al,al

c0029367: 75 36 jne c002939f <acquire\_console+0x42>

c0029369: 80 3d 4c b7 03 c0 00 cmp BYTE PTR ds:0xc003b74c,0x0

c0029370: 74 2d je c002939f <acquire\_console+0x42>

c0029372: 83 ec 0c sub esp,0xc

c0029375: 68 60 b7 03 c0 push 0xc003b760

c002937a: e8 c6 93 ff ff call c0022745 <lock\_held\_by\_current\_th

read>

c002937f: 83 c4 10 add esp,0x10

c0029382: 84 c0 test al,al

c0029384: 74 09 je c002938f <acquire\_console+0x32>

c0029386: 83 05 48 b7 03 c0 01 add DWORD PTR ds:0xc003b748,0x1

c002938d: eb 10 jmp c002939f <acquire\_console+0x42>

c002938f: 83 ec 0c sub esp,0xc

c0029392: 68 60 b7 03 c0 push 0xc003b760

c0029397: e8 e7 93 ff ff call c0022783 <lock\_acquire>

c002939c: 83 c4 10 add esp,0x10

c002939f: 83 c4 0c add esp,0xc

c00293a2: c3 ret

c00293a3 <release\_console>:

c00293a3: 83 ec 0c sub esp,0xc

c00293a6: e8 16 83 ff ff call c00216c1 <intr\_context>

c00293ab: 84 c0 test al,al

c00293ad: 75 2c jne c00293db <release\_console+0x38>

c00293af: 80 3d 4c b7 03 c0 00 cmp BYTE PTR ds:0xc003b74c,0x0

c00293b6: 74 23 je c00293db <release\_console+0x38>

c00293b8: a1 48 b7 03 c0 mov eax,ds:0xc003b748

c00293bd: 85 c0 test eax,eax

c00293bf: 7e 0a jle c00293cb <release\_console+0x28>

c00293c1: 83 e8 01 sub eax,0x1

c00293c4: a3 48 b7 03 c0 mov ds:0xc003b748,eax

c00293c9: eb 10 jmp c00293db <release\_console+0x38>

c00293cb: 83 ec 0c sub esp,0xc

c00293ce: 68 60 b7 03 c0 push 0xc003b760

c00293d3: e8 fb 94 ff ff call c00228d3 <lock\_release>

c00293d8: 83 c4 10 add esp,0x10

c00293db: 83 c4 0c add esp,0xc

c00293de: c3 ret

c00293df <console\_init>:

c00293df: 83 ec 18 sub esp,0x18

c00293e2: 68 60 b7 03 c0 push 0xc003b760

c00293e7: e8 15 93 ff ff call c0022701 <lock\_init>

c00293ec: c6 05 4c b7 03 c0 01 mov BYTE PTR ds:0xc003b74c,0x1

c00293f3: 83 c4 1c add esp,0x1c

c00293f6: c3 ret

c00293f7 <console\_panic>:

c00293f7: c6 05 4c b7 03 c0 00 mov BYTE PTR ds:0xc003b74c,0x0

c00293fe: c3 ret

c00293ff <console\_print\_stats>:

c00293ff: 83 ec 10 sub esp,0x10

c0029402: ff 35 44 b7 03 c0 push DWORD PTR ds:0xc003b744

c0029408: ff 35 40 b7 03 c0 push DWORD PTR ds:0xc003b740

c002940e: 68 10 0e 03 c0 push 0xc0030e10

c0029413: e8 ad c8 ff ff call c0025cc5 <printf>

c0029418: 83 c4 1c add esp,0x1c

c002941b: c3 ret

c002941c <vprintf>:

c002941c: 83 ec 1c sub esp,0x1c

c002941f: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

c0029426: 00

c0029427: e8 31 ff ff ff call c002935d <acquire\_console>

c002942c: 8d 44 24 0c lea eax,[esp+0xc]

c0029430: 50 push eax

c0029431: 68 45 93 02 c0 push 0xc0029345

c0029436: ff 74 24 2c push DWORD PTR [esp+0x2c]

c002943a: ff 74 24 2c push DWORD PTR [esp+0x2c]

c002943e: e8 b7 c8 ff ff call c0025cfa <\_\_vprintf>

c0029443: e8 5b ff ff ff call c00293a3 <release\_console>

c0029448: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002944c: 83 c4 2c add esp,0x2c

c002944f: c3 ret

c0029450 <puts>:

c0029450: 53 push ebx

c0029451: 83 ec 08 sub esp,0x8

c0029454: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c0029458: e8 00 ff ff ff call c002935d <acquire\_console>

c002945d: 0f b6 03 movzx eax,BYTE PTR [ebx]

c0029460: 84 c0 test al,al

c0029462: 74 12 je c0029476 <puts+0x26>

c0029464: 83 c3 01 add ebx,0x1

c0029467: 0f b6 c0 movzx eax,al

c002946a: e8 62 fe ff ff call c00292d1 <putchar\_have\_lock>

c002946f: 0f b6 03 movzx eax,BYTE PTR [ebx]

c0029472: 84 c0 test al,al

c0029474: 75 ee jne c0029464 <puts+0x14>

c0029476: b8 0a 00 00 00 mov eax,0xa

c002947b: e8 51 fe ff ff call c00292d1 <putchar\_have\_lock>

c0029480: e8 1e ff ff ff call c00293a3 <release\_console>

c0029485: b8 00 00 00 00 mov eax,0x0

c002948a: 83 c4 08 add esp,0x8

c002948d: 5b pop ebx

c002948e: c3 ret

c002948f <putbuf>:

c002948f: 56 push esi

c0029490: 53 push ebx

c0029491: 83 ec 04 sub esp,0x4

c0029494: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0029498: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c002949c: e8 bc fe ff ff call c002935d <acquire\_console>

c00294a1: 85 db test ebx,ebx

c00294a3: 74 11 je c00294b6 <putbuf+0x27>

c00294a5: 83 c6 01 add esi,0x1

c00294a8: 0f b6 46 ff movzx eax,BYTE PTR [esi-0x1]

c00294ac: e8 20 fe ff ff call c00292d1 <putchar\_have\_lock>

c00294b1: 83 eb 01 sub ebx,0x1

c00294b4: 75 ef jne c00294a5 <putbuf+0x16>

c00294b6: e8 e8 fe ff ff call c00293a3 <release\_console>

c00294bb: 83 c4 04 add esp,0x4

c00294be: 5b pop ebx

c00294bf: 5e pop esi

c00294c0: c3 ret

c00294c1 <putchar>:

c00294c1: 53 push ebx

c00294c2: 83 ec 08 sub esp,0x8

c00294c5: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c00294c9: e8 8f fe ff ff call c002935d <acquire\_console>

c00294ce: 0f b6 c3 movzx eax,bl

c00294d1: e8 fb fd ff ff call c00292d1 <putchar\_have\_lock>

c00294d6: e8 c8 fe ff ff call c00293a3 <release\_console>

c00294db: 89 d8 mov eax,ebx

c00294dd: 83 c4 08 add esp,0x8

c00294e0: 5b pop ebx

c00294e1: c3 ret

c00294e2 <process\_execute>:

c00294e2: 57 push edi

c00294e3: 56 push esi

c00294e4: 53 push ebx

c00294e5: 83 ec 1c sub esp,0x1c

c00294e8: 8b 74 24 2c mov esi,DWORD PTR [esp+0x2c]

c00294ec: 68 4c 0e 03 c0 push 0xc0030e4c

c00294f1: e8 5a ff ff ff call c0029450 <puts>

c00294f6: 83 c4 08 add esp,0x8

c00294f9: 56 push esi

c00294fa: 68 66 0e 03 c0 push 0xc0030e66

c00294ff: e8 c1 c7 ff ff call c0025cc5 <printf>

c0029504: c7 04 24 00 00 00 00 mov DWORD PTR [esp],0x0

c002950b: e8 7b 98 ff ff call c0022d8b <palloc\_get\_page>

c0029510: 83 c4 10 add esp,0x10

c0029513: 85 c0 test eax,eax

c0029515: 74 7d je c0029594 <process\_execute+0xb2>

c0029517: 89 c3 mov ebx,eax

c0029519: 83 ec 04 sub esp,0x4

c002951c: 68 00 10 00 00 push 0x1000

c0029521: 56 push esi

c0029522: 50 push eax

c0029523: e8 29 db ff ff call c0027051 <strlcpy>

c0029528: c7 04 24 00 00 00 00 mov DWORD PTR [esp],0x0

c002952f: e8 57 98 ff ff call c0022d8b <palloc\_get\_page>

c0029534: 89 c7 mov edi,eax

c0029536: 83 c4 10 add esp,0x10

c0029539: 85 c0 test eax,eax

c002953b: 74 5e je c002959b <process\_execute+0xb9>

c002953d: 83 ec 04 sub esp,0x4

c0029540: 68 00 10 00 00 push 0x1000

c0029545: 56 push esi

c0029546: 50 push eax

c0029547: e8 05 db ff ff call c0027051 <strlcpy>

c002954c: 83 c4 0c add esp,0xc

c002954f: 8d 44 24 10 lea eax,[esp+0x10]

c0029553: 50 push eax

c0029554: 68 e6 07 03 c0 push 0xc00307e6

c0029559: 57 push edi

c002955a: e8 b7 d8 ff ff call c0026e16 <strtok\_r>

c002955f: 89 c7 mov edi,eax

c0029561: 53 push ebx

c0029562: 68 1e 96 02 c0 push 0xc002961e

c0029567: 6a 1f push 0x1f

c0029569: 50 push eax

c002956a: e8 5d 77 ff ff call c0020ccc <thread\_create>

c002956f: 89 c6 mov esi,eax

c0029571: 83 c4 14 add esp,0x14

c0029574: 57 push edi

c0029575: e8 47 99 ff ff call c0022ec1 <palloc\_free\_page>

c002957a: 83 c4 10 add esp,0x10

c002957d: 89 f0 mov eax,esi

c002957f: 83 fe ff cmp esi,0xffffffff

c0029582: 75 1c jne c00295a0 <process\_execute+0xbe>

c0029584: 83 ec 0c sub esp,0xc

c0029587: 53 push ebx

c0029588: e8 34 99 ff ff call c0022ec1 <palloc\_free\_page>

c002958d: 83 c4 10 add esp,0x10

c0029590: 89 f0 mov eax,esi

c0029592: eb 0c jmp c00295a0 <process\_execute+0xbe>

c0029594: b8 ff ff ff ff mov eax,0xffffffff

c0029599: eb 05 jmp c00295a0 <process\_execute+0xbe>

c002959b: b8 ff ff ff ff mov eax,0xffffffff

c00295a0: 83 c4 10 add esp,0x10

c00295a3: 5b pop ebx

c00295a4: 5e pop esi

c00295a5: 5f pop edi

c00295a6: c3 ret

c00295a7 <process\_wait>:

c00295a7: 56 push esi

c00295a8: 53 push ebx

c00295a9: 83 ec 10 sub esp,0x10

c00295ac: ff 74 24 1c push DWORD PTR [esp+0x1c]

c00295b0: e8 ae 19 00 00 call c002af63 <get\_child\_process>

c00295b5: 83 c4 10 add esp,0x10

c00295b8: 85 c0 test eax,eax

c00295ba: 74 34 je c00295f0 <process\_wait+0x49>

c00295bc: 89 c3 mov ebx,eax

c00295be: 80 78 08 00 cmp BYTE PTR [eax+0x8],0x0

c00295c2: 75 33 jne c00295f7 <process\_wait+0x50>

c00295c4: c6 40 08 01 mov BYTE PTR [eax+0x8],0x1

c00295c8: 80 78 09 00 cmp BYTE PTR [eax+0x9],0x0

c00295cc: 75 0f jne c00295dd <process\_wait+0x36>

c00295ce: 83 ec 0c sub esp,0xc

c00295d1: 8d 40 24 lea eax,[eax+0x24]

c00295d4: 50 push eax

c00295d5: e8 26 8f ff ff call c0022500 <sema\_down>

c00295da: 83 c4 10 add esp,0x10

c00295dd: 8b 73 0c mov esi,DWORD PTR [ebx+0xc]

c00295e0: 83 ec 0c sub esp,0xc

c00295e3: 53 push ebx

c00295e4: e8 ca 19 00 00 call c002afb3 <remove\_child\_process>

c00295e9: 83 c4 10 add esp,0x10

c00295ec: 89 f0 mov eax,esi

c00295ee: eb 0c jmp c00295fc <process\_wait+0x55>

c00295f0: b8 ff ff ff ff mov eax,0xffffffff

c00295f5: eb 05 jmp c00295fc <process\_wait+0x55>

c00295f7: b8 ff ff ff ff mov eax,0xffffffff

c00295fc: 83 c4 04 add esp,0x4

c00295ff: 5b pop ebx

c0029600: 5e pop esi

c0029601: c3 ret

c0029602 <process\_activate>:

c0029602: 83 ec 0c sub esp,0xc

c0029605: e8 e1 75 ff ff call c0020beb <thread\_current>

c002960a: 83 ec 0c sub esp,0xc

c002960d: ff 70 30 push DWORD PTR [eax+0x30]

c0029610: e8 86 0f 00 00 call c002a59b <pagedir\_activate>

c0029615: e8 ad 1f 00 00 call c002b5c7 <tss\_update>

c002961a: 83 c4 1c add esp,0x1c

c002961d: c3 ret

c002961e <start\_process>:

c002961e: 55 push ebp

c002961f: 57 push edi

c0029620: 56 push esi

c0029621: 53 push ebx

c0029622: 81 ec e8 00 00 00 sub esp,0xe8

c0029628: 8b 9c 24 fc 00 00 00 mov ebx,DWORD PTR [esp+0xfc]

c002962f: 68 74 0e 03 c0 push 0xc0030e74

c0029634: e8 17 fe ff ff call c0029450 <puts>

c0029639: 83 c4 08 add esp,0x8

c002963c: 53 push ebx

c002963d: 68 66 0e 03 c0 push 0xc0030e66

c0029642: e8 7e c6 ff ff call c0025cc5 <printf>

c0029647: 83 c4 0c add esp,0xc

c002964a: 8d 84 24 80 00 00 00 lea eax,[esp+0x80]

c0029651: 50 push eax

c0029652: 68 e6 07 03 c0 push 0xc00307e6

c0029657: 53 push ebx

c0029658: e8 b9 d7 ff ff call c0026e16 <strtok\_r>

c002965d: 89 c5 mov ebp,eax

c002965f: e8 87 75 ff ff call c0020beb <thread\_current>

c0029664: 83 c0 78 add eax,0x78

c0029667: 89 04 24 mov DWORD PTR [esp],eax

c002966a: e8 87 39 00 00 call c002cff6 <page\_table\_init>

c002966f: 8d 94 24 90 00 00 00 lea edx,[esp+0x90]

c0029676: b9 14 00 00 00 mov ecx,0x14

c002967b: b8 00 00 00 00 mov eax,0x0

c0029680: 89 d7 mov edi,edx

c0029682: f3 ab rep stos DWORD PTR es:[edi],eax

c0029684: 66 c7 84 24 dc 00 00 mov WORD PTR [esp+0xdc],0x23

c002968b: 00 23 00

c002968e: 66 c7 84 24 bc 00 00 mov WORD PTR [esp+0xbc],0x23

c0029695: 00 23 00

c0029698: 66 c7 84 24 b8 00 00 mov WORD PTR [esp+0xb8],0x23

c002969f: 00 23 00

c00296a2: 66 c7 84 24 b4 00 00 mov WORD PTR [esp+0xb4],0x23

c00296a9: 00 23 00

c00296ac: 66 c7 84 24 b0 00 00 mov WORD PTR [esp+0xb0],0x23

c00296b3: 00 23 00

c00296b6: 66 c7 84 24 d0 00 00 mov WORD PTR [esp+0xd0],0x1b

c00296bd: 00 1b 00

c00296c0: c7 84 24 d4 00 00 00 mov DWORD PTR [esp+0xd4],0x202

c00296c7: 02 02 00 00

c00296cb: e8 1b 75 ff ff call c0020beb <thread\_current>

c00296d0: 89 c3 mov ebx,eax

c00296d2: e8 16 0b 00 00 call c002a1ed <pagedir\_create>

c00296d7: 89 43 30 mov DWORD PTR [ebx+0x30],eax

c00296da: 83 c4 10 add esp,0x10

c00296dd: 85 c0 test eax,eax

c00296df: 0f 84 6a 05 00 00 je c0029c4f <start\_process+0x631>

c00296e5: e8 18 ff ff ff call c0029602 <process\_activate>

c00296ea: 83 ec 0c sub esp,0xc

c00296ed: 68 20 ba 03 c0 push 0xc003ba20

c00296f2: e8 8c 90 ff ff call c0022783 <lock\_acquire>

c00296f7: 89 2c 24 mov DWORD PTR [esp],ebp

c00296fa: e8 5f 20 00 00 call c002b75e <filesys\_open>

c00296ff: 89 c7 mov edi,eax

c0029701: 83 c4 10 add esp,0x10

c0029704: 85 c0 test eax,eax

c0029706: 75 16 jne c002971e <start\_process+0x100>

c0029708: 83 ec 08 sub esp,0x8

c002970b: 55 push ebp

c002970c: 68 8c 0e 03 c0 push 0xc0030e8c

c0029711: e8 af c5 ff ff call c0025cc5 <printf>

c0029716: 83 c4 10 add esp,0x10

c0029719: e9 31 05 00 00 jmp c0029c4f <start\_process+0x631>

c002971e: 83 ec 0c sub esp,0xc

c0029721: 50 push eax

c0029722: e8 0b 24 00 00 call c002bb32 <file\_deny\_write>

c0029727: 89 7b 74 mov DWORD PTR [ebx+0x74],edi

c002972a: 83 c4 0c add esp,0xc

c002972d: 6a 34 push 0x34

c002972f: 8d 44 24 50 lea eax,[esp+0x50]

c0029733: 50 push eax

c0029734: 57 push edi

c0029735: e8 78 23 00 00 call c002bab2 <file\_read>

c002973a: 83 c4 10 add esp,0x10

c002973d: 83 f8 34 cmp eax,0x34

c0029740: 75 3d jne c002977f <start\_process+0x161>

c0029742: 83 ec 04 sub esp,0x4

c0029745: 6a 07 push 0x7

c0029747: 68 a3 0e 03 c0 push 0xc0030ea3

c002974c: 8d 44 24 54 lea eax,[esp+0x54]

c0029750: 50 push eax

c0029751: e8 d6 d3 ff ff call c0026b2c <memcmp>

c0029756: 83 c4 10 add esp,0x10

c0029759: 85 c0 test eax,eax

c002975b: 75 22 jne c002977f <start\_process+0x161>

c002975d: 81 7c 24 58 02 00 03 cmp DWORD PTR [esp+0x58],0x30002

c0029764: 00

c0029765: 75 18 jne c002977f <start\_process+0x161>

c0029767: 83 7c 24 5c 01 cmp DWORD PTR [esp+0x5c],0x1

c002976c: 75 11 jne c002977f <start\_process+0x161>

c002976e: 66 83 7c 24 72 20 cmp WORD PTR [esp+0x72],0x20

c0029774: 75 09 jne c002977f <start\_process+0x161>

c0029776: 66 81 7c 24 74 00 04 cmp WORD PTR [esp+0x74],0x400

c002977d: 76 16 jbe c0029795 <start\_process+0x177>

c002977f: 83 ec 08 sub esp,0x8

c0029782: 55 push ebp

c0029783: 68 f4 0e 03 c0 push 0xc0030ef4

c0029788: e8 38 c5 ff ff call c0025cc5 <printf>

c002978d: 83 c4 10 add esp,0x10

c0029790: e9 ba 04 00 00 jmp c0029c4f <start\_process+0x631>

c0029795: 8b 44 24 64 mov eax,DWORD PTR [esp+0x64]

c0029799: 89 44 24 18 mov DWORD PTR [esp+0x18],eax

c002979d: c7 44 24 14 00 00 00 mov DWORD PTR [esp+0x14],0x0

c00297a4: 00

c00297a5: 89 6c 24 1c mov DWORD PTR [esp+0x1c],ebp

c00297a9: 89 7c 24 0c mov DWORD PTR [esp+0xc],edi

c00297ad: e9 e1 01 00 00 jmp c0029993 <start\_process+0x375>

c00297b2: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c00297b6: 85 f6 test esi,esi

c00297b8: 0f 88 45 04 00 00 js c0029c03 <start\_process+0x5e5>

c00297be: 83 ec 0c sub esp,0xc

c00297c1: 8b 7c 24 18 mov edi,DWORD PTR [esp+0x18]

c00297c5: 57 push edi

c00297c6: e8 21 24 00 00 call c002bbec <file\_length>

c00297cb: 83 c4 10 add esp,0x10

c00297ce: 39 c6 cmp esi,eax

c00297d0: 0f 8f 33 04 00 00 jg c0029c09 <start\_process+0x5eb>

c00297d6: 83 ec 08 sub esp,0x8

c00297d9: 56 push esi

c00297da: 57 push edi

c00297db: e8 46 24 00 00 call c002bc26 <file\_seek>

c00297e0: 83 c4 0c add esp,0xc

c00297e3: 6a 20 push 0x20

c00297e5: 8d 44 24 30 lea eax,[esp+0x30]

c00297e9: 50 push eax

c00297ea: 57 push edi

c00297eb: e8 c2 22 00 00 call c002bab2 <file\_read>

c00297f0: 83 c4 10 add esp,0x10

c00297f3: 83 f8 20 cmp eax,0x20

c00297f6: 0f 85 13 04 00 00 jne c0029c0f <start\_process+0x5f1>

c00297fc: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c0029800: 83 f8 03 cmp eax,0x3

c0029803: 77 13 ja c0029818 <start\_process+0x1fa>

c0029805: 83 f8 02 cmp eax,0x2

c0029808: 0f 83 07 04 00 00 jae c0029c15 <start\_process+0x5f7>

c002980e: 83 f8 01 cmp eax,0x1

c0029811: 74 13 je c0029826 <start\_process+0x208>

c0029813: e9 71 01 00 00 jmp c0029989 <start\_process+0x36b>

c0029818: 83 f8 05 cmp eax,0x5

c002981b: 0f 84 fa 03 00 00 je c0029c1b <start\_process+0x5fd>

c0029821: e9 63 01 00 00 jmp c0029989 <start\_process+0x36b>

c0029826: 8b 5c 24 2c mov ebx,DWORD PTR [esp+0x2c]

c002982a: 89 d8 mov eax,ebx

c002982c: 33 44 24 30 xor eax,DWORD PTR [esp+0x30]

c0029830: a9 ff 0f 00 00 test eax,0xfff

c0029835: 0f 85 e6 03 00 00 jne c0029c21 <start\_process+0x603>

c002983b: 83 ec 0c sub esp,0xc

c002983e: ff 74 24 18 push DWORD PTR [esp+0x18]

c0029842: e8 a5 23 00 00 call c002bbec <file\_length>

c0029847: 83 c4 10 add esp,0x10

c002984a: 39 c3 cmp ebx,eax

c002984c: 0f 87 d5 03 00 00 ja c0029c27 <start\_process+0x609>

c0029852: 8b 74 24 3c mov esi,DWORD PTR [esp+0x3c]

c0029856: 8b 5c 24 38 mov ebx,DWORD PTR [esp+0x38]

c002985a: 85 f6 test esi,esi

c002985c: 0f 84 cb 03 00 00 je c0029c2d <start\_process+0x60f>

c0029862: 39 de cmp esi,ebx

c0029864: 0f 82 c9 03 00 00 jb c0029c33 <start\_process+0x615>

c002986a: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002986e: 3d ff ff ff bf cmp eax,0xbfffffff

c0029873: 0f 87 c0 03 00 00 ja c0029c39 <start\_process+0x61b>

c0029879: 3d ff 0f 00 00 cmp eax,0xfff

c002987e: 0f 96 c1 setbe cl

c0029881: 89 f7 mov edi,esi

c0029883: 01 c7 add edi,eax

c0029885: 0f 92 c2 setb dl

c0029888: 08 d1 or cl,dl

c002988a: 0f 85 af 03 00 00 jne c0029c3f <start\_process+0x621>

c0029890: 81 ff ff ff ff bf cmp edi,0xbfffffff

c0029896: 0f 87 a9 03 00 00 ja c0029c45 <start\_process+0x627>

c002989c: 8b 54 24 40 mov edx,DWORD PTR [esp+0x40]

c00298a0: d1 ea shr edx,1

c00298a2: 89 d5 mov ebp,edx

c00298a4: 83 e5 01 and ebp,0x1

c00298a7: 8b 54 24 2c mov edx,DWORD PTR [esp+0x2c]

c00298ab: 81 e2 00 f0 ff ff and edx,0xfffff000

c00298b1: 89 c7 mov edi,eax

c00298b3: 81 e7 00 f0 ff ff and edi,0xfffff000

c00298b9: 25 ff 0f 00 00 and eax,0xfff

c00298be: 85 db test ebx,ebx

c00298c0: 74 16 je c00298d8 <start\_process+0x2ba>

c00298c2: 01 c3 add ebx,eax

c00298c4: 8d 84 30 ff 0f 00 00 lea eax,[eax+esi\*1+0xfff]

c00298cb: 25 00 f0 ff ff and eax,0xfffff000

c00298d0: 29 d8 sub eax,ebx

c00298d2: 89 44 24 04 mov DWORD PTR [esp+0x4],eax

c00298d6: eb 15 jmp c00298ed <start\_process+0x2cf>

c00298d8: 8d 84 30 ff 0f 00 00 lea eax,[eax+esi\*1+0xfff]

c00298df: 25 00 f0 ff ff and eax,0xfffff000

c00298e4: 89 44 24 04 mov DWORD PTR [esp+0x4],eax

c00298e8: bb 00 00 00 00 mov ebx,0x0

c00298ed: 89 54 24 08 mov DWORD PTR [esp+0x8],edx

c00298f1: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c00298f5: 01 d8 add eax,ebx

c00298f7: a9 ff 0f 00 00 test eax,0xfff

c00298fc: 74 21 je c002991f <start\_process+0x301>

c00298fe: 83 ec 0c sub esp,0xc

c0029901: 68 18 0f 03 c0 push 0xc0030f18

c0029906: 68 83 ed 02 c0 push 0xc002ed83

c002990b: 68 3c ea 02 c0 push 0xc002ea3c

c0029910: 68 f2 01 00 00 push 0x1f2

c0029915: 68 ab 0e 03 c0 push 0xc0030eab

c002991a: e8 1e e0 ff ff call c002793d <debug\_panic>

c002991f: 83 ec 08 sub esp,0x8

c0029922: 52 push edx

c0029923: ff 74 24 18 push DWORD PTR [esp+0x18]

c0029927: e8 fa 22 00 00 call c002bc26 <file\_seek>

c002992c: 83 c4 10 add esp,0x10

c002992f: 89 e8 mov eax,ebp

c0029931: 0f b6 c0 movzx eax,al

c0029934: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

c0029938: eb 47 jmp c0029981 <start\_process+0x363>

c002993a: 81 fb 00 10 00 00 cmp ebx,0x1000

c0029940: be 00 10 00 00 mov esi,0x1000

c0029945: 0f 46 f3 cmovbe esi,ebx

c0029948: bd 00 10 00 00 mov ebp,0x1000

c002994d: 29 f5 sub ebp,esi

c002994f: 83 ec 08 sub esp,0x8

c0029952: ff 74 24 18 push DWORD PTR [esp+0x18]

c0029956: 55 push ebp

c0029957: 56 push esi

c0029958: 57 push edi

c0029959: ff 74 24 20 push DWORD PTR [esp+0x20]

c002995d: ff 74 24 28 push DWORD PTR [esp+0x28]

c0029961: e8 88 38 00 00 call c002d1ee <add\_file\_to\_page\_table>

c0029966: 83 c4 20 add esp,0x20

c0029969: 84 c0 test al,al

c002996b: 0f 84 da 02 00 00 je c0029c4b <start\_process+0x62d>

c0029971: 29 f3 sub ebx,esi

c0029973: 29 6c 24 04 sub DWORD PTR [esp+0x4],ebp

c0029977: 01 74 24 08 add DWORD PTR [esp+0x8],esi

c002997b: 81 c7 00 10 00 00 add edi,0x1000

c0029981: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0029985: 09 d8 or eax,ebx

c0029987: 75 b1 jne c002993a <start\_process+0x31c>

c0029989: 83 44 24 18 20 add DWORD PTR [esp+0x18],0x20

c002998e: 83 44 24 14 01 add DWORD PTR [esp+0x14],0x1

c0029993: 0f b7 44 24 74 movzx eax,WORD PTR [esp+0x74]

c0029998: 39 44 24 14 cmp DWORD PTR [esp+0x14],eax

c002999c: 0f 8c 10 fe ff ff jl c00297b2 <start\_process+0x194>

c00299a2: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c00299a6: 83 ec 0c sub esp,0xc

c00299a9: 68 00 f0 ff bf push 0xbffff000

c00299ae: e8 47 39 00 00 call c002d2fa <grow\_stack>

c00299b3: 83 c4 10 add esp,0x10

c00299b6: 84 c0 test al,al

c00299b8: 0f 84 33 02 00 00 je c0029bf1 <start\_process+0x5d3>

c00299be: c7 84 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],0xc0000000

c00299c5: 00 00 00 c0

c00299c9: 83 ec 0c sub esp,0xc

c00299cc: 6a 08 push 0x8

c00299ce: e8 21 97 ff ff call c00230f4 <malloc>

c00299d3: 89 c3 mov ebx,eax

c00299d5: 83 c4 10 add esp,0x10

c00299d8: 85 c0 test eax,eax

c00299da: 0f 84 11 02 00 00 je c0029bf1 <start\_process+0x5d3>

c00299e0: c7 44 24 04 00 00 00 mov DWORD PTR [esp+0x4],0x0

c00299e7: 00

c00299e8: c7 44 24 08 02 00 00 mov DWORD PTR [esp+0x8],0x2

c00299ef: 00

c00299f0: 89 6c 24 0c mov DWORD PTR [esp+0xc],ebp

c00299f4: e9 91 00 00 00 jmp c0029a8a <start\_process+0x46c>

c00299f9: b8 00 00 00 00 mov eax,0x0

c00299fe: b9 ff ff ff ff mov ecx,0xffffffff

c0029a03: 89 ef mov edi,ebp

c0029a05: f2 ae repnz scas al,BYTE PTR es:[edi]

c0029a07: 8b 84 24 c8 00 00 00 mov eax,DWORD PTR [esp+0xc8]

c0029a0e: 8d 74 08 01 lea esi,[eax+ecx\*1+0x1]

c0029a12: 89 b4 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],esi

c0029a19: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0029a1d: 89 34 83 mov DWORD PTR [ebx+eax\*4],esi

c0029a20: 83 c0 01 add eax,0x1

c0029a23: 89 44 24 04 mov DWORD PTR [esp+0x4],eax

c0029a27: 8b 4c 24 08 mov ecx,DWORD PTR [esp+0x8]

c0029a2b: 39 c8 cmp eax,ecx

c0029a2d: 7c 22 jl c0029a51 <start\_process+0x433>

c0029a2f: 89 c8 mov eax,ecx

c0029a31: 01 c8 add eax,ecx

c0029a33: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c0029a37: 83 ec 08 sub esp,0x8

c0029a3a: c1 e0 02 shl eax,0x2

c0029a3d: 50 push eax

c0029a3e: 53 push ebx

c0029a3f: e8 21 99 ff ff call c0023365 <realloc>

c0029a44: 89 c3 mov ebx,eax

c0029a46: 83 c4 10 add esp,0x10

c0029a49: 85 c0 test eax,eax

c0029a4b: 0f 84 9c 01 00 00 je c0029bed <start\_process+0x5cf>

c0029a51: b8 00 00 00 00 mov eax,0x0

c0029a56: b9 ff ff ff ff mov ecx,0xffffffff

c0029a5b: 89 ef mov edi,ebp

c0029a5d: f2 ae repnz scas al,BYTE PTR es:[edi]

c0029a5f: 89 c8 mov eax,ecx

c0029a61: f7 d0 not eax

c0029a63: 83 ec 04 sub esp,0x4

c0029a66: 50 push eax

c0029a67: 55 push ebp

c0029a68: 56 push esi

c0029a69: e8 99 cf ff ff call c0026a07 <memcpy>

c0029a6e: 83 c4 0c add esp,0xc

c0029a71: 8d 84 24 80 00 00 00 lea eax,[esp+0x80]

c0029a78: 50 push eax

c0029a79: 68 e6 07 03 c0 push 0xc00307e6

c0029a7e: 6a 00 push 0x0

c0029a80: e8 91 d3 ff ff call c0026e16 <strtok\_r>

c0029a85: 89 c5 mov ebp,eax

c0029a87: 83 c4 10 add esp,0x10

c0029a8a: 85 ed test ebp,ebp

c0029a8c: 0f 85 67 ff ff ff jne c00299f9 <start\_process+0x3db>

c0029a92: 8b 6c 24 0c mov ebp,DWORD PTR [esp+0xc]

c0029a96: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0029a9a: 89 c6 mov esi,eax

c0029a9c: 8d 14 83 lea edx,[ebx+eax\*4]

c0029a9f: c7 02 00 00 00 00 mov DWORD PTR [edx],0x0

c0029aa5: 8b 84 24 c8 00 00 00 mov eax,DWORD PTR [esp+0xc8]

c0029aac: 89 c1 mov ecx,eax

c0029aae: 83 e1 03 and ecx,0x3

c0029ab1: 74 39 je c0029aec <start\_process+0x4ce>

c0029ab3: 29 c8 sub eax,ecx

c0029ab5: 89 84 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],eax

c0029abc: 83 ec 04 sub esp,0x4

c0029abf: 51 push ecx

c0029ac0: 52 push edx

c0029ac1: 50 push eax

c0029ac2: e8 40 cf ff ff call c0026a07 <memcpy>

c0029ac7: 83 c4 10 add esp,0x10

c0029aca: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0029ace: eb 20 jmp c0029af0 <start\_process+0x4d2>

c0029ad0: 8b 94 24 c8 00 00 00 mov edx,DWORD PTR [esp+0xc8]

c0029ad7: 8d 4a fc lea ecx,[edx-0x4]

c0029ada: 89 8c 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],ecx

c0029ae1: 8b 0c 83 mov ecx,DWORD PTR [ebx+eax\*4]

c0029ae4: 89 4a fc mov DWORD PTR [edx-0x4],ecx

c0029ae7: 83 e8 01 sub eax,0x1

c0029aea: eb 04 jmp c0029af0 <start\_process+0x4d2>

c0029aec: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c0029af0: 85 c0 test eax,eax

c0029af2: 79 dc jns c0029ad0 <start\_process+0x4b2>

c0029af4: 8b 84 24 c8 00 00 00 mov eax,DWORD PTR [esp+0xc8]

c0029afb: 8d 50 fc lea edx,[eax-0x4]

c0029afe: 89 94 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],edx

c0029b05: 89 40 fc mov DWORD PTR [eax-0x4],eax

c0029b08: 8b 84 24 c8 00 00 00 mov eax,DWORD PTR [esp+0xc8]

c0029b0f: 8d 50 fc lea edx,[eax-0x4]

c0029b12: 89 94 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],edx

c0029b19: 89 70 fc mov DWORD PTR [eax-0x4],esi

c0029b1c: 8b 84 24 c8 00 00 00 mov eax,DWORD PTR [esp+0xc8]

c0029b23: 8d 50 fc lea edx,[eax-0x4]

c0029b26: 89 94 24 c8 00 00 00 mov DWORD PTR [esp+0xc8],edx

c0029b2d: c7 40 fc 00 00 00 00 mov DWORD PTR [eax-0x4],0x0

c0029b34: 83 ec 0c sub esp,0xc

c0029b37: 53 push ebx

c0029b38: e8 48 97 ff ff call c0023285 <free>

c0029b3d: 8b 44 24 70 mov eax,DWORD PTR [esp+0x70]

c0029b41: 89 84 24 cc 00 00 00 mov DWORD PTR [esp+0xcc],eax

c0029b48: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c0029b4f: e8 7f 8d ff ff call c00228d3 <lock\_release>

c0029b54: c7 04 24 c4 0e 03 c0 mov DWORD PTR [esp],0xc0030ec4

c0029b5b: e8 f0 f8 ff ff call c0029450 <puts>

c0029b60: e8 86 70 ff ff call c0020beb <thread\_current>

c0029b65: 8b 40 70 mov eax,DWORD PTR [eax+0x70]

c0029b68: c7 40 04 01 00 00 00 mov DWORD PTR [eax+0x4],0x1

c0029b6f: e8 77 70 ff ff call c0020beb <thread\_current>

c0029b74: 8b 40 70 mov eax,DWORD PTR [eax+0x70]

c0029b77: 83 c0 10 add eax,0x10

c0029b7a: 89 04 24 mov DWORD PTR [esp],eax

c0029b7d: e8 69 8a ff ff call c00225eb <sema\_up>

c0029b82: 89 2c 24 mov DWORD PTR [esp],ebp

c0029b85: e8 37 93 ff ff call c0022ec1 <palloc\_free\_page>

c0029b8a: 8d 84 24 90 00 00 00 lea eax,[esp+0x90]

c0029b91: 89 c4 mov esp,eax

c0029b93: e9 93 7d ff ff jmp c002192b <intr\_exit>

c0029b98: 68 64 f5 02 c0 push 0xc002f564

c0029b9d: 68 4c ea 02 c0 push 0xc002ea4c

c0029ba2: 68 82 00 00 00 push 0x82

c0029ba7: 68 ab 0e 03 c0 push 0xc0030eab

c0029bac: e8 8c dd ff ff call c002793d <debug\_panic>

c0029bb1: 83 ec 0c sub esp,0xc

c0029bb4: 68 dc 0e 03 c0 push 0xc0030edc

c0029bb9: e8 92 f8 ff ff call c0029450 <puts>

c0029bbe: e8 28 70 ff ff call c0020beb <thread\_current>

c0029bc3: 8b 40 70 mov eax,DWORD PTR [eax+0x70]

c0029bc6: c7 40 04 02 00 00 00 mov DWORD PTR [eax+0x4],0x2

c0029bcd: e8 19 70 ff ff call c0020beb <thread\_current>

c0029bd2: 8b 40 70 mov eax,DWORD PTR [eax+0x70]

c0029bd5: 83 c0 10 add eax,0x10

c0029bd8: 89 04 24 mov DWORD PTR [esp],eax

c0029bdb: e8 0b 8a ff ff call c00225eb <sema\_up>

c0029be0: 89 2c 24 mov DWORD PTR [esp],ebp

c0029be3: e8 d9 92 ff ff call c0022ec1 <palloc\_free\_page>

c0029be8: e8 52 76 ff ff call c002123f <thread\_exit>

c0029bed: 8b 6c 24 0c mov ebp,DWORD PTR [esp+0xc]

c0029bf1: 83 ec 0c sub esp,0xc

c0029bf4: 68 20 ba 03 c0 push 0xc003ba20

c0029bf9: e8 d5 8c ff ff call c00228d3 <lock\_release>

c0029bfe: 83 c4 10 add esp,0x10

c0029c01: eb ae jmp c0029bb1 <start\_process+0x593>

c0029c03: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c07: eb 46 jmp c0029c4f <start\_process+0x631>

c0029c09: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c0d: eb 40 jmp c0029c4f <start\_process+0x631>

c0029c0f: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c13: eb 3a jmp c0029c4f <start\_process+0x631>

c0029c15: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c19: eb 34 jmp c0029c4f <start\_process+0x631>

c0029c1b: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c1f: eb 2e jmp c0029c4f <start\_process+0x631>

c0029c21: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c25: eb 28 jmp c0029c4f <start\_process+0x631>

c0029c27: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c2b: eb 22 jmp c0029c4f <start\_process+0x631>

c0029c2d: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c31: eb 1c jmp c0029c4f <start\_process+0x631>

c0029c33: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c37: eb 16 jmp c0029c4f <start\_process+0x631>

c0029c39: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c3d: eb 10 jmp c0029c4f <start\_process+0x631>

c0029c3f: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c43: eb 0a jmp c0029c4f <start\_process+0x631>

c0029c45: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c49: eb 04 jmp c0029c4f <start\_process+0x631>

c0029c4b: 8b 6c 24 1c mov ebp,DWORD PTR [esp+0x1c]

c0029c4f: 83 ec 0c sub esp,0xc

c0029c52: 68 20 ba 03 c0 push 0xc003ba20

c0029c57: e8 77 8c ff ff call c00228d3 <lock\_release>

c0029c5c: 83 c4 10 add esp,0x10

c0029c5f: e9 4d ff ff ff jmp c0029bb1 <start\_process+0x593>

c0029c64 <install\_page>:

c0029c64: 57 push edi

c0029c65: 56 push esi

c0029c66: 53 push ebx

c0029c67: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c0029c6b: 8b 7c 24 18 mov edi,DWORD PTR [esp+0x18]

c0029c6f: e8 77 6f ff ff call c0020beb <thread\_current>

c0029c74: 89 c3 mov ebx,eax

c0029c76: 83 ec 08 sub esp,0x8

c0029c79: 56 push esi

c0029c7a: ff 70 30 push DWORD PTR [eax+0x30]

c0029c7d: e8 26 08 00 00 call c002a4a8 <pagedir\_get\_page>

c0029c82: 83 c4 10 add esp,0x10

c0029c85: ba 00 00 00 00 mov edx,0x0

c0029c8a: 85 c0 test eax,eax

c0029c8c: 75 19 jne c0029ca7 <install\_page+0x43>

c0029c8e: 89 f8 mov eax,edi

c0029c90: 0f b6 f8 movzx edi,al

c0029c93: 57 push edi

c0029c94: ff 74 24 18 push DWORD PTR [esp+0x18]

c0029c98: 56 push esi

c0029c99: ff 73 30 push DWORD PTR [ebx+0x30]

c0029c9c: e8 ad 06 00 00 call c002a34e <pagedir\_set\_page>

c0029ca1: 0f b6 d0 movzx edx,al

c0029ca4: 83 c4 10 add esp,0x10

c0029ca7: 89 d0 mov eax,edx

c0029ca9: 83 e0 01 and eax,0x1

c0029cac: 5b pop ebx

c0029cad: 5e pop esi

c0029cae: 5f pop edi

c0029caf: c3 ret

c0029cb0 <process\_add\_file>:

c0029cb0: 53 push ebx

c0029cb1: 83 ec 14 sub esp,0x14

c0029cb4: 6a 10 push 0x10

c0029cb6: e8 39 94 ff ff call c00230f4 <malloc>

c0029cbb: 83 c4 10 add esp,0x10

c0029cbe: 85 c0 test eax,eax

c0029cc0: 74 39 je c0029cfb <process\_add\_file+0x4b>

c0029cc2: 89 c3 mov ebx,eax

c0029cc4: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0029cc8: 89 03 mov DWORD PTR [ebx],eax

c0029cca: e8 1c 6f ff ff call c0020beb <thread\_current>

c0029ccf: 8b 40 58 mov eax,DWORD PTR [eax+0x58]

c0029cd2: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c0029cd5: e8 11 6f ff ff call c0020beb <thread\_current>

c0029cda: 83 40 58 01 add DWORD PTR [eax+0x58],0x1

c0029cde: e8 08 6f ff ff call c0020beb <thread\_current>

c0029ce3: 83 ec 08 sub esp,0x8

c0029ce6: 8d 53 08 lea edx,[ebx+0x8]

c0029ce9: 52 push edx

c0029cea: 83 c0 48 add eax,0x48

c0029ced: 50 push eax

c0029cee: e8 95 e1 ff ff call c0027e88 <list\_push\_back>

c0029cf3: 8b 43 04 mov eax,DWORD PTR [ebx+0x4]

c0029cf6: 83 c4 10 add esp,0x10

c0029cf9: eb 05 jmp c0029d00 <process\_add\_file+0x50>

c0029cfb: b8 ff ff ff ff mov eax,0xffffffff

c0029d00: 83 c4 08 add esp,0x8

c0029d03: 5b pop ebx

c0029d04: c3 ret

c0029d05 <process\_get\_file>:

c0029d05: 57 push edi

c0029d06: 56 push esi

c0029d07: 53 push ebx

c0029d08: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c0029d0c: e8 da 6e ff ff call c0020beb <thread\_current>

c0029d11: 8d 70 48 lea esi,[eax+0x48]

c0029d14: 83 ec 0c sub esp,0xc

c0029d17: 56 push esi

c0029d18: e8 0a dd ff ff call c0027a27 <list\_begin>

c0029d1d: 89 c3 mov ebx,eax

c0029d1f: 83 c4 10 add esp,0x10

c0029d22: eb 18 jmp c0029d3c <process\_get\_file+0x37>

c0029d24: 39 7b fc cmp DWORD PTR [ebx-0x4],edi

c0029d27: 75 05 jne c0029d2e <process\_get\_file+0x29>

c0029d29: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029d2c: eb 23 jmp c0029d51 <process\_get\_file+0x4c>

c0029d2e: 83 ec 0c sub esp,0xc

c0029d31: 53 push ebx

c0029d32: e8 20 dd ff ff call c0027a57 <list\_next>

c0029d37: 89 c3 mov ebx,eax

c0029d39: 83 c4 10 add esp,0x10

c0029d3c: 83 ec 0c sub esp,0xc

c0029d3f: 56 push esi

c0029d40: e8 58 dd ff ff call c0027a9d <list\_end>

c0029d45: 83 c4 10 add esp,0x10

c0029d48: 39 c3 cmp ebx,eax

c0029d4a: 75 d8 jne c0029d24 <process\_get\_file+0x1f>

c0029d4c: b8 00 00 00 00 mov eax,0x0

c0029d51: 5b pop ebx

c0029d52: 5e pop esi

c0029d53: 5f pop edi

c0029d54: c3 ret

c0029d55 <process\_close\_file>:

c0029d55: 55 push ebp

c0029d56: 57 push edi

c0029d57: 56 push esi

c0029d58: 53 push ebx

c0029d59: 83 ec 1c sub esp,0x1c

c0029d5c: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

c0029d60: e8 86 6e ff ff call c0020beb <thread\_current>

c0029d65: 8d 78 48 lea edi,[eax+0x48]

c0029d68: 83 ec 0c sub esp,0xc

c0029d6b: 57 push edi

c0029d6c: e8 b6 dc ff ff call c0027a27 <list\_begin>

c0029d71: 89 c3 mov ebx,eax

c0029d73: 83 c4 10 add esp,0x10

c0029d76: eb 48 jmp c0029dc0 <process\_close\_file+0x6b

>

c0029d78: 83 ec 0c sub esp,0xc

c0029d7b: 53 push ebx

c0029d7c: e8 d6 dc ff ff call c0027a57 <list\_next>

c0029d81: 89 c5 mov ebp,eax

c0029d83: 83 c4 10 add esp,0x10

c0029d86: 39 73 fc cmp DWORD PTR [ebx-0x4],esi

c0029d89: 74 05 je c0029d90 <process\_close\_file+0x3b

>

c0029d8b: 83 fe ff cmp esi,0xffffffff

c0029d8e: 75 2e jne c0029dbe <process\_close\_file+0x69

>

c0029d90: 83 ec 0c sub esp,0xc

c0029d93: ff 73 f8 push DWORD PTR [ebx-0x8]

c0029d96: e8 22 1e 00 00 call c002bbbd <file\_close>

c0029d9b: 8d 43 f8 lea eax,[ebx-0x8]

c0029d9e: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c0029da2: 89 1c 24 mov DWORD PTR [esp],ebx

c0029da5: e8 fb e0 ff ff call c0027ea5 <list\_remove>

c0029daa: 83 c4 04 add esp,0x4

c0029dad: ff 74 24 18 push DWORD PTR [esp+0x18]

c0029db1: e8 cf 94 ff ff call c0023285 <free>

c0029db6: 83 c4 10 add esp,0x10

c0029db9: 83 fe ff cmp esi,0xffffffff

c0029dbc: 75 12 jne c0029dd0 <process\_close\_file+0x7b

>

c0029dbe: 89 eb mov ebx,ebp

c0029dc0: 83 ec 0c sub esp,0xc

c0029dc3: 57 push edi

c0029dc4: e8 d4 dc ff ff call c0027a9d <list\_end>

c0029dc9: 83 c4 10 add esp,0x10

c0029dcc: 39 c3 cmp ebx,eax

c0029dce: 75 a8 jne c0029d78 <process\_close\_file+0x23

>

c0029dd0: 83 c4 1c add esp,0x1c

c0029dd3: 5b pop ebx

c0029dd4: 5e pop esi

c0029dd5: 5f pop edi

c0029dd6: 5d pop ebp

c0029dd7: c3 ret

c0029dd8 <process\_add\_mmap>:

c0029dd8: 53 push ebx

c0029dd9: 83 ec 14 sub esp,0x14

c0029ddc: 6a 10 push 0x10

c0029dde: e8 11 93 ff ff call c00230f4 <malloc>

c0029de3: 89 c3 mov ebx,eax

c0029de5: 83 c4 10 add esp,0x10

c0029de8: b8 00 00 00 00 mov eax,0x0

c0029ded: 85 db test ebx,ebx

c0029def: 74 33 je c0029e24 <process\_add\_mmap+0x4c>

c0029df1: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c0029df5: 89 03 mov DWORD PTR [ebx],eax

c0029df7: e8 ef 6d ff ff call c0020beb <thread\_current>

c0029dfc: 8b 80 a0 00 00 00 mov eax,DWORD PTR [eax+0xa0]

c0029e02: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c0029e05: e8 e1 6d ff ff call c0020beb <thread\_current>

c0029e0a: 83 ec 08 sub esp,0x8

c0029e0d: 83 c3 08 add ebx,0x8

c0029e10: 53 push ebx

c0029e11: 05 90 00 00 00 add eax,0x90

c0029e16: 50 push eax

c0029e17: e8 6c e0 ff ff call c0027e88 <list\_push\_back>

c0029e1c: 83 c4 10 add esp,0x10

c0029e1f: b8 01 00 00 00 mov eax,0x1

c0029e24: 83 c4 08 add esp,0x8

c0029e27: 5b pop ebx

c0029e28: c3 ret

c0029e29 <process\_remove\_mmap>:

c0029e29: 55 push ebp

c0029e2a: 57 push edi

c0029e2b: 56 push esi

c0029e2c: 53 push ebx

c0029e2d: 83 ec 1c sub esp,0x1c

c0029e30: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

c0029e34: e8 b2 6d ff ff call c0020beb <thread\_current>

c0029e39: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c0029e3d: 8d a8 90 00 00 00 lea ebp,[eax+0x90]

c0029e43: 83 ec 0c sub esp,0xc

c0029e46: 55 push ebp

c0029e47: e8 db db ff ff call c0027a27 <list\_begin>

c0029e4c: 89 c3 mov ebx,eax

c0029e4e: 83 c4 10 add esp,0x10

c0029e51: c7 44 24 04 00 00 00 mov DWORD PTR [esp+0x4],0x0

c0029e58: 00

c0029e59: be 00 00 00 00 mov esi,0x0

c0029e5e: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c0029e62: 83 c0 78 add eax,0x78

c0029e65: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c0029e69: e9 34 01 00 00 jmp c0029fa2 <process\_remove\_mmap+0x1

79>

c0029e6e: 83 ec 0c sub esp,0xc

c0029e71: 53 push ebx

c0029e72: e8 e0 db ff ff call c0027a57 <list\_next>

c0029e77: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

c0029e7b: 83 c4 10 add esp,0x10

c0029e7e: 39 7b fc cmp DWORD PTR [ebx-0x4],edi

c0029e81: 74 09 je c0029e8c <process\_remove\_mmap+0x6

3>

c0029e83: 83 ff ff cmp edi,0xffffffff

c0029e86: 0f 85 13 01 00 00 jne c0029f9f <process\_remove\_mmap+0x1

76>

c0029e8c: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029e8f: c6 40 0a 01 mov BYTE PTR [eax+0xa],0x1

c0029e93: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029e96: 80 78 09 00 cmp BYTE PTR [eax+0x9],0x0

c0029e9a: 74 7f je c0029f1b <process\_remove\_mmap+0xf

2>

c0029e9c: 83 ec 08 sub esp,0x8

c0029e9f: ff 70 04 push DWORD PTR [eax+0x4]

c0029ea2: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0029ea6: ff 70 30 push DWORD PTR [eax+0x30]

c0029ea9: e8 8f 06 00 00 call c002a53d <pagedir\_is\_dirty>

c0029eae: 83 c4 10 add esp,0x10

c0029eb1: 84 c0 test al,al

c0029eb3: 74 31 je c0029ee6 <process\_remove\_mmap+0xb

d>

c0029eb5: 83 ec 0c sub esp,0xc

c0029eb8: 68 20 ba 03 c0 push 0xc003ba20

c0029ebd: e8 c1 88 ff ff call c0022783 <lock\_acquire>

c0029ec2: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029ec5: ff 70 10 push DWORD PTR [eax+0x10]

c0029ec8: ff 70 14 push DWORD PTR [eax+0x14]

c0029ecb: ff 70 04 push DWORD PTR [eax+0x4]

c0029ece: ff 70 0c push DWORD PTR [eax+0xc]

c0029ed1: e8 3e 1c 00 00 call c002bb14 <file\_write\_at>

c0029ed6: 83 c4 14 add esp,0x14

c0029ed9: 68 20 ba 03 c0 push 0xc003ba20

c0029ede: e8 f0 89 ff ff call c00228d3 <lock\_release>

c0029ee3: 83 c4 10 add esp,0x10

c0029ee6: 83 ec 08 sub esp,0x8

c0029ee9: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029eec: ff 70 04 push DWORD PTR [eax+0x4]

c0029eef: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0029ef3: ff 70 30 push DWORD PTR [eax+0x30]

c0029ef6: e8 ad 05 00 00 call c002a4a8 <pagedir\_get\_page>

c0029efb: 89 04 24 mov DWORD PTR [esp],eax

c0029efe: e8 dd 2d 00 00 call c002cce0 <frame\_free>

c0029f03: 83 c4 08 add esp,0x8

c0029f06: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029f09: ff 70 04 push DWORD PTR [eax+0x4]

c0029f0c: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c0029f10: ff 70 30 push DWORD PTR [eax+0x30]

c0029f13: e8 0a 07 00 00 call c002a622 <pagedir\_clear\_page>

c0029f18: 83 c4 10 add esp,0x10

c0029f1b: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029f1e: 80 38 03 cmp BYTE PTR [eax],0x3

c0029f21: 74 13 je c0029f36 <process\_remove\_mmap+0x1

0d>

c0029f23: 83 ec 08 sub esp,0x8

c0029f26: 83 c0 20 add eax,0x20

c0029f29: 50 push eax

c0029f2a: ff 74 24 18 push DWORD PTR [esp+0x18]

c0029f2e: e8 e6 f0 ff ff call c0029019 <hash\_delete>

c0029f33: 83 c4 10 add esp,0x10

c0029f36: 83 ec 0c sub esp,0xc

c0029f39: 53 push ebx

c0029f3a: e8 66 df ff ff call c0027ea5 <list\_remove>

c0029f3f: 8b 43 fc mov eax,DWORD PTR [ebx-0x4]

c0029f42: 83 c4 10 add esp,0x10

c0029f45: 39 44 24 04 cmp DWORD PTR [esp+0x4],eax

c0029f49: 74 37 je c0029f82 <process\_remove\_mmap+0x1

59>

c0029f4b: 85 f6 test esi,esi

c0029f4d: 74 24 je c0029f73 <process\_remove\_mmap+0x1

4a>

c0029f4f: 83 ec 0c sub esp,0xc

c0029f52: 68 20 ba 03 c0 push 0xc003ba20

c0029f57: e8 27 88 ff ff call c0022783 <lock\_acquire>

c0029f5c: 89 34 24 mov DWORD PTR [esp],esi

c0029f5f: e8 59 1c 00 00 call c002bbbd <file\_close>

c0029f64: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c0029f6b: e8 63 89 ff ff call c00228d3 <lock\_release>

c0029f70: 83 c4 10 add esp,0x10

c0029f73: 8b 43 fc mov eax,DWORD PTR [ebx-0x4]

c0029f76: 89 44 24 04 mov DWORD PTR [esp+0x4],eax

c0029f7a: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c0029f7d: 8b 70 0c mov esi,DWORD PTR [eax+0xc]

c0029f80: eb 04 jmp c0029f86 <process\_remove\_mmap+0x1

5d>

c0029f82: 89 44 24 04 mov DWORD PTR [esp+0x4],eax

c0029f86: 83 ec 0c sub esp,0xc

c0029f89: ff 73 f8 push DWORD PTR [ebx-0x8]

c0029f8c: e8 f4 92 ff ff call c0023285 <free>

c0029f91: 83 eb 08 sub ebx,0x8

c0029f94: 89 1c 24 mov DWORD PTR [esp],ebx

c0029f97: e8 e9 92 ff ff call c0023285 <free>

c0029f9c: 83 c4 10 add esp,0x10

c0029f9f: 8b 1c 24 mov ebx,DWORD PTR [esp]

c0029fa2: 83 ec 0c sub esp,0xc

c0029fa5: 55 push ebp

c0029fa6: e8 f2 da ff ff call c0027a9d <list\_end>

c0029fab: 83 c4 10 add esp,0x10

c0029fae: 39 c3 cmp ebx,eax

c0029fb0: 0f 85 b8 fe ff ff jne c0029e6e <process\_remove\_mmap+0x4

5>

c0029fb6: 85 f6 test esi,esi

c0029fb8: 74 24 je c0029fde <process\_remove\_mmap+0x1

b5>

c0029fba: 83 ec 0c sub esp,0xc

c0029fbd: 68 20 ba 03 c0 push 0xc003ba20

c0029fc2: e8 bc 87 ff ff call c0022783 <lock\_acquire>

c0029fc7: 89 34 24 mov DWORD PTR [esp],esi

c0029fca: e8 ee 1b 00 00 call c002bbbd <file\_close>

c0029fcf: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c0029fd6: e8 f8 88 ff ff call c00228d3 <lock\_release>

c0029fdb: 83 c4 10 add esp,0x10

c0029fde: 83 c4 1c add esp,0x1c

c0029fe1: 5b pop ebx

c0029fe2: 5e pop esi

c0029fe3: 5f pop edi

c0029fe4: 5d pop ebp

c0029fe5: c3 ret

c0029fe6 <process\_exit>:

c0029fe6: 56 push esi

c0029fe7: 53 push ebx

c0029fe8: 83 ec 04 sub esp,0x4

c0029feb: e8 fb 6b ff ff call c0020beb <thread\_current>

c0029ff0: 89 c3 mov ebx,eax

c0029ff2: 83 ec 0c sub esp,0xc

c0029ff5: 68 20 ba 03 c0 push 0xc003ba20

c0029ffa: e8 84 87 ff ff call c0022783 <lock\_acquire>

c0029fff: c7 04 24 ff ff ff ff mov DWORD PTR [esp],0xffffffff

c002a006: e8 4a fd ff ff call c0029d55 <process\_close\_file>

c002a00b: 8b 43 74 mov eax,DWORD PTR [ebx+0x74]

c002a00e: 83 c4 10 add esp,0x10

c002a011: 85 c0 test eax,eax

c002a013: 74 0c je c002a021 <process\_exit+0x3b>

c002a015: 83 ec 0c sub esp,0xc

c002a018: 50 push eax

c002a019: e8 9f 1b 00 00 call c002bbbd <file\_close>

c002a01e: 83 c4 10 add esp,0x10

c002a021: 83 ec 0c sub esp,0xc

c002a024: 68 20 ba 03 c0 push 0xc003ba20

c002a029: e8 a5 88 ff ff call c00228d3 <lock\_release>

c002a02e: e8 fc 0f 00 00 call c002b02f <remove\_child\_processes>

c002a033: 83 c4 04 add esp,0x4

c002a036: ff 73 6c push DWORD PTR [ebx+0x6c]

c002a039: e8 5c 71 ff ff call c002119a <thread\_alive>

c002a03e: 83 c4 10 add esp,0x10

c002a041: 84 c0 test al,al

c002a043: 74 23 je c002a068 <process\_exit+0x82>

c002a045: 8b 43 70 mov eax,DWORD PTR [ebx+0x70]

c002a048: 85 c0 test eax,eax

c002a04a: 74 1c je c002a068 <process\_exit+0x82>

c002a04c: 83 7b 74 00 cmp DWORD PTR [ebx+0x74],0x0

c002a050: 74 16 je c002a068 <process\_exit+0x82>

c002a052: c6 40 09 01 mov BYTE PTR [eax+0x9],0x1

c002a056: 83 ec 0c sub esp,0xc

c002a059: 8b 43 70 mov eax,DWORD PTR [ebx+0x70]

c002a05c: 83 c0 24 add eax,0x24

c002a05f: 50 push eax

c002a060: e8 86 85 ff ff call c00225eb <sema\_up>

c002a065: 83 c4 10 add esp,0x10

c002a068: 83 ec 0c sub esp,0xc

c002a06b: 6a ff push 0xffffffff

c002a06d: e8 b7 fd ff ff call c0029e29 <process\_remove\_mmap>

c002a072: 8d 43 78 lea eax,[ebx+0x78]

c002a075: 89 04 24 mov DWORD PTR [esp],eax

c002a078: e8 95 2f 00 00 call c002d012 <page\_table\_destroy>

c002a07d: 8b 73 30 mov esi,DWORD PTR [ebx+0x30]

c002a080: 83 c4 10 add esp,0x10

c002a083: 85 f6 test esi,esi

c002a085: 74 1c je c002a0a3 <process\_exit+0xbd>

c002a087: c7 43 30 00 00 00 00 mov DWORD PTR [ebx+0x30],0x0

c002a08e: 83 ec 0c sub esp,0xc

c002a091: 6a 00 push 0x0

c002a093: e8 03 05 00 00 call c002a59b <pagedir\_activate>

c002a098: 89 34 24 mov DWORD PTR [esp],esi

c002a09b: e8 93 01 00 00 call c002a233 <pagedir\_destroy>

c002a0a0: 83 c4 10 add esp,0x10

c002a0a3: 83 c4 04 add esp,0x4

c002a0a6: 5b pop ebx

c002a0a7: 5e pop esi

c002a0a8: c3 ret

c002a0a9 <lookup\_page>:

c002a0a9: 56 push esi

c002a0aa: 53 push ebx

c002a0ab: 83 ec 04 sub esp,0x4

c002a0ae: 85 c0 test eax,eax

c002a0b0: 75 1e jne c002a0d0 <lookup\_page+0x27>

c002a0b2: 83 ec 0c sub esp,0xc

c002a0b5: 68 40 0f 03 c0 push 0xc0030f40

c002a0ba: 68 83 ed 02 c0 push 0xc002ed83

c002a0bf: 68 90 ea 02 c0 push 0xc002ea90

c002a0c4: 6a 3d push 0x3d

c002a0c6: 68 4b 0f 03 c0 push 0xc0030f4b

c002a0cb: e8 6d d8 ff ff call c002793d <debug\_panic>

c002a0d0: 89 d3 mov ebx,edx

c002a0d2: 81 fa ff ff ff bf cmp edx,0xbfffffff

c002a0d8: 0f 96 c2 setbe dl

c002a0db: 38 d1 cmp cl,dl

c002a0dd: 76 1e jbe c002a0fd <lookup\_page+0x54>

c002a0df: 83 ec 0c sub esp,0xc

c002a0e2: 68 ec 0f 03 c0 push 0xc0030fec

c002a0e7: 68 83 ed 02 c0 push 0xc002ed83

c002a0ec: 68 90 ea 02 c0 push 0xc002ea90

c002a0f1: 6a 40 push 0x40

c002a0f3: 68 4b 0f 03 c0 push 0xc0030f4b

c002a0f8: e8 40 d8 ff ff call c002793d <debug\_panic>

c002a0fd: 89 da mov edx,ebx

c002a0ff: c1 ea 16 shr edx,0x16

c002a102: 8d 34 90 lea esi,[eax+edx\*4]

c002a105: 83 3e 00 cmp DWORD PTR [esi],0x0

c002a108: 75 71 jne c002a17b <lookup\_page+0xd2>

c002a10a: 84 c9 test cl,cl

c002a10c: 0f 84 c9 00 00 00 je c002a1db <lookup\_page+0x132>

c002a112: 83 ec 0c sub esp,0xc

c002a115: 6a 02 push 0x2

c002a117: e8 6f 8c ff ff call c0022d8b <palloc\_get\_page>

c002a11c: 83 c4 10 add esp,0x10

c002a11f: 85 c0 test eax,eax

c002a121: 0f 84 bb 00 00 00 je c002a1e2 <lookup\_page+0x139>

c002a127: a9 ff 0f 00 00 test eax,0xfff

c002a12c: 74 1e je c002a14c <lookup\_page+0xa3>

c002a12e: 83 ec 0c sub esp,0xc

c002a131: 68 72 ed 02 c0 push 0xc002ed72

c002a136: 68 83 ed 02 c0 push 0xc002ed83

c002a13b: 68 84 ea 02 c0 push 0xc002ea84

c002a140: 6a 48 push 0x48

c002a142: 68 9a ed 02 c0 push 0xc002ed9a

c002a147: e8 f1 d7 ff ff call c002793d <debug\_panic>

c002a14c: 3d ff ff ff bf cmp eax,0xbfffffff

c002a151: 77 1e ja c002a171 <lookup\_page+0xc8>

c002a153: 83 ec 0c sub esp,0xc

c002a156: 68 ae ed 02 c0 push 0xc002edae

c002a15b: 68 83 ed 02 c0 push 0xc002ed83

c002a160: 68 9c ea 02 c0 push 0xc002ea9c

c002a165: 6a 54 push 0x54

c002a167: 68 c6 ed 02 c0 push 0xc002edc6

c002a16c: e8 cc d7 ff ff call c002793d <debug\_panic>

c002a171: 05 00 00 00 40 add eax,0x40000000

c002a176: 83 c8 07 or eax,0x7

c002a179: 89 06 mov DWORD PTR [esi],eax

c002a17b: 8b 06 mov eax,DWORD PTR [esi]

c002a17d: a8 01 test al,0x1

c002a17f: 75 1e jne c002a19f <lookup\_page+0xf6>

c002a181: 83 ec 0c sub esp,0xc

c002a184: 68 64 0f 03 c0 push 0xc0030f64

c002a189: 68 83 ed 02 c0 push 0xc002ed83

c002a18e: 68 c0 ea 02 c0 push 0xc002eac0

c002a193: 6a 4f push 0x4f

c002a195: 68 9a ed 02 c0 push 0xc002ed9a

c002a19a: e8 9e d7 ff ff call c002793d <debug\_panic>

c002a19f: 25 00 f0 ff ff and eax,0xfffff000

c002a1a4: 3d ff ff ff bf cmp eax,0xbfffffff

c002a1a9: 76 1e jbe c002a1c9 <lookup\_page+0x120>

c002a1ab: 83 ec 0c sub esp,0xc

c002a1ae: 68 63 fa 02 c0 push 0xc002fa63

c002a1b3: 68 83 ed 02 c0 push 0xc002ed83

c002a1b8: 68 b8 ea 02 c0 push 0xc002eab8

c002a1bd: 6a 4a push 0x4a

c002a1bf: 68 c6 ed 02 c0 push 0xc002edc6

c002a1c4: e8 74 d7 ff ff call c002793d <debug\_panic>

c002a1c9: 81 e3 00 f0 3f 00 and ebx,0x3ff000

c002a1cf: c1 eb 0a shr ebx,0xa

c002a1d2: 8d 84 18 00 00 00 c0 lea eax,[eax+ebx\*1-0x40000000]

c002a1d9: eb 0c jmp c002a1e7 <lookup\_page+0x13e>

c002a1db: b8 00 00 00 00 mov eax,0x0

c002a1e0: eb 05 jmp c002a1e7 <lookup\_page+0x13e>

c002a1e2: b8 00 00 00 00 mov eax,0x0

c002a1e7: 83 c4 04 add esp,0x4

c002a1ea: 5b pop ebx

c002a1eb: 5e pop esi

c002a1ec: c3 ret

c002a1ed <pagedir\_create>:

c002a1ed: 57 push edi

c002a1ee: 56 push esi

c002a1ef: 83 ec 10 sub esp,0x10

c002a1f2: 6a 00 push 0x0

c002a1f4: e8 92 8b ff ff call c0022d8b <palloc\_get\_page>

c002a1f9: 83 c4 10 add esp,0x10

c002a1fc: 85 c0 test eax,eax

c002a1fe: 74 2d je c002a22d <pagedir\_create+0x40>

c002a200: 8b 35 44 ba 03 c0 mov esi,DWORD PTR ds:0xc003ba44

c002a206: 8b 16 mov edx,DWORD PTR [esi]

c002a208: 89 10 mov DWORD PTR [eax],edx

c002a20a: 8b 96 fc 0f 00 00 mov edx,DWORD PTR [esi+0xffc]

c002a210: 89 90 fc 0f 00 00 mov DWORD PTR [eax+0xffc],edx

c002a216: 8d 78 04 lea edi,[eax+0x4]

c002a219: 83 e7 fc and edi,0xfffffffc

c002a21c: 89 c1 mov ecx,eax

c002a21e: 29 f9 sub ecx,edi

c002a220: 29 ce sub esi,ecx

c002a222: 81 c1 00 10 00 00 add ecx,0x1000

c002a228: c1 e9 02 shr ecx,0x2

c002a22b: f3 a5 rep movs DWORD PTR es:[edi],DWORD PTR ds

:[esi]

c002a22d: 83 c4 04 add esp,0x4

c002a230: 5e pop esi

c002a231: 5f pop edi

c002a232: c3 ret

c002a233 <pagedir\_destroy>:

c002a233: 55 push ebp

c002a234: 57 push edi

c002a235: 56 push esi

c002a236: 53 push ebx

c002a237: 83 ec 1c sub esp,0x1c

c002a23a: 83 7c 24 30 00 cmp DWORD PTR [esp+0x30],0x0

c002a23f: 0f 84 01 01 00 00 je c002a346 <pagedir\_destroy+0x113>

c002a245: a1 44 ba 03 c0 mov eax,ds:0xc003ba44

c002a24a: 39 44 24 30 cmp DWORD PTR [esp+0x30],eax

c002a24e: 74 18 je c002a268 <pagedir\_destroy+0x35>

c002a250: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002a254: 05 00 0c 00 00 add eax,0xc00

c002a259: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c002a25d: 39 44 24 30 cmp DWORD PTR [esp+0x30],eax

c002a261: 72 23 jb c002a286 <pagedir\_destroy+0x53>

c002a263: e9 cf 00 00 00 jmp c002a337 <pagedir\_destroy+0x104>

c002a268: 83 ec 0c sub esp,0xc

c002a26b: 68 70 0f 03 c0 push 0xc0030f70

c002a270: 68 83 ed 02 c0 push 0xc002ed83

c002a275: 68 cc ea 02 c0 push 0xc002eacc

c002a27a: 6a 23 push 0x23

c002a27c: 68 4b 0f 03 c0 push 0xc0030f4b

c002a281: e8 b7 d6 ff ff call c002793d <debug\_panic>

c002a286: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

c002a28a: 8b 37 mov esi,DWORD PTR [edi]

c002a28c: f7 c6 01 00 00 00 test esi,0x1

c002a292: 0f 84 92 00 00 00 je c002a32a <pagedir\_destroy+0xf7>

c002a298: 81 e6 00 f0 ff ff and esi,0xfffff000

c002a29e: 81 fe ff ff ff bf cmp esi,0xbfffffff

c002a2a4: 76 1e jbe c002a2c4 <pagedir\_destroy+0x91>

c002a2a6: 83 ec 0c sub esp,0xc

c002a2a9: 68 63 fa 02 c0 push 0xc002fa63

c002a2ae: 68 83 ed 02 c0 push 0xc002ed83

c002a2b3: 68 b8 ea 02 c0 push 0xc002eab8

c002a2b8: 6a 4a push 0x4a

c002a2ba: 68 c6 ed 02 c0 push 0xc002edc6

c002a2bf: e8 79 d6 ff ff call c002793d <debug\_panic>

c002a2c4: 8d ae 00 00 00 c0 lea ebp,[esi-0x40000000]

c002a2ca: 81 ee 00 f0 ff 3f sub esi,0x3ffff000

c002a2d0: 39 f5 cmp ebp,esi

c002a2d2: 73 4a jae c002a31e <pagedir\_destroy+0xeb>

c002a2d4: 89 eb mov ebx,ebp

c002a2d6: 8b 03 mov eax,DWORD PTR [ebx]

c002a2d8: a8 01 test al,0x1

c002a2da: 74 3b je c002a317 <pagedir\_destroy+0xe4>

c002a2dc: 25 00 f0 ff ff and eax,0xfffff000

c002a2e1: 3d ff ff ff bf cmp eax,0xbfffffff

c002a2e6: 76 1e jbe c002a306 <pagedir\_destroy+0xd3>

c002a2e8: 83 ec 0c sub esp,0xc

c002a2eb: 68 63 fa 02 c0 push 0xc002fa63

c002a2f0: 68 83 ed 02 c0 push 0xc002ed83

c002a2f5: 68 b8 ea 02 c0 push 0xc002eab8

c002a2fa: 6a 4a push 0x4a

c002a2fc: 68 c6 ed 02 c0 push 0xc002edc6

c002a301: e8 37 d6 ff ff call c002793d <debug\_panic>

c002a306: 83 ec 0c sub esp,0xc

c002a309: 2d 00 00 00 40 sub eax,0x40000000

c002a30e: 50 push eax

c002a30f: e8 ad 8b ff ff call c0022ec1 <palloc\_free\_page>

c002a314: 83 c4 10 add esp,0x10

c002a317: 83 c3 04 add ebx,0x4

c002a31a: 39 f3 cmp ebx,esi

c002a31c: 75 b8 jne c002a2d6 <pagedir\_destroy+0xa3>

c002a31e: 83 ec 0c sub esp,0xc

c002a321: 55 push ebp

c002a322: e8 9a 8b ff ff call c0022ec1 <palloc\_free\_page>

c002a327: 83 c4 10 add esp,0x10

c002a32a: 83 c7 04 add edi,0x4

c002a32d: 3b 7c 24 0c cmp edi,DWORD PTR [esp+0xc]

c002a331: 0f 85 53 ff ff ff jne c002a28a <pagedir\_destroy+0x57>

c002a337: 83 ec 0c sub esp,0xc

c002a33a: ff 74 24 3c push DWORD PTR [esp+0x3c]

c002a33e: e8 7e 8b ff ff call c0022ec1 <palloc\_free\_page>

c002a343: 83 c4 10 add esp,0x10

c002a346: 83 c4 1c add esp,0x1c

c002a349: 5b pop ebx

c002a34a: 5e pop esi

c002a34b: 5f pop edi

c002a34c: 5d pop ebp

c002a34d: c3 ret

c002a34e <pagedir\_set\_page>:

c002a34e: 56 push esi

c002a34f: 53 push ebx

c002a350: 83 ec 04 sub esp,0x4

c002a353: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002a357: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002a35b: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

c002a35f: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c002a363: f7 c2 ff 0f 00 00 test edx,0xfff

c002a369: 74 1e je c002a389 <pagedir\_set\_page+0x3b>

c002a36b: 83 ec 0c sub esp,0xc

c002a36e: 68 84 0f 03 c0 push 0xc0030f84

c002a373: 68 83 ed 02 c0 push 0xc002ed83

c002a378: 68 a4 ea 02 c0 push 0xc002eaa4

c002a37d: 6a 6c push 0x6c

c002a37f: 68 4b 0f 03 c0 push 0xc0030f4b

c002a384: e8 b4 d5 ff ff call c002793d <debug\_panic>

c002a389: f7 c1 ff 0f 00 00 test ecx,0xfff

c002a38f: 74 1e je c002a3af <pagedir\_set\_page+0x61>

c002a391: 83 ec 0c sub esp,0xc

c002a394: 68 98 0f 03 c0 push 0xc0030f98

c002a399: 68 83 ed 02 c0 push 0xc002ed83

c002a39e: 68 a4 ea 02 c0 push 0xc002eaa4

c002a3a3: 6a 6d push 0x6d

c002a3a5: 68 4b 0f 03 c0 push 0xc0030f4b

c002a3aa: e8 8e d5 ff ff call c002793d <debug\_panic>

c002a3af: 81 fa ff ff ff bf cmp edx,0xbfffffff

c002a3b5: 76 1e jbe c002a3d5 <pagedir\_set\_page+0x87>

c002a3b7: 83 ec 0c sub esp,0xc

c002a3ba: 68 ac 0f 03 c0 push 0xc0030fac

c002a3bf: 68 83 ed 02 c0 push 0xc002ed83

c002a3c4: 68 a4 ea 02 c0 push 0xc002eaa4

c002a3c9: 6a 6e push 0x6e

c002a3cb: 68 4b 0f 03 c0 push 0xc0030f4b

c002a3d0: e8 68 d5 ff ff call c002793d <debug\_panic>

c002a3d5: 81 f9 ff ff ff bf cmp ecx,0xbfffffff

c002a3db: 77 1e ja c002a3fb <pagedir\_set\_page+0xad>

c002a3dd: 83 ec 0c sub esp,0xc

c002a3e0: 68 ae ed 02 c0 push 0xc002edae

c002a3e5: 68 83 ed 02 c0 push 0xc002ed83

c002a3ea: 68 9c ea 02 c0 push 0xc002ea9c

c002a3ef: 6a 54 push 0x54

c002a3f1: 68 c6 ed 02 c0 push 0xc002edc6

c002a3f6: e8 42 d5 ff ff call c002793d <debug\_panic>

c002a3fb: 8d b1 00 00 00 40 lea esi,[ecx+0x40000000]

c002a401: 89 f1 mov ecx,esi

c002a403: c1 e9 0c shr ecx,0xc

c002a406: 3b 0d 7e 01 02 c0 cmp ecx,DWORD PTR ds:0xc002017e

c002a40c: 72 1e jb c002a42c <pagedir\_set\_page+0xde>

c002a40e: 83 ec 0c sub esp,0xc

c002a411: 68 10 10 03 c0 push 0xc0031010

c002a416: 68 83 ed 02 c0 push 0xc002ed83

c002a41b: 68 a4 ea 02 c0 push 0xc002eaa4

c002a420: 6a 6f push 0x6f

c002a422: 68 4b 0f 03 c0 push 0xc0030f4b

c002a427: e8 11 d5 ff ff call c002793d <debug\_panic>

c002a42c: 39 05 44 ba 03 c0 cmp DWORD PTR ds:0xc003ba44,eax

c002a432: 75 1e jne c002a452 <pagedir\_set\_page+0x104>

c002a434: 83 ec 0c sub esp,0xc

c002a437: 68 70 0f 03 c0 push 0xc0030f70

c002a43c: 68 83 ed 02 c0 push 0xc002ed83

c002a441: 68 a4 ea 02 c0 push 0xc002eaa4

c002a446: 6a 70 push 0x70

c002a448: 68 4b 0f 03 c0 push 0xc0030f4b

c002a44d: e8 eb d4 ff ff call c002793d <debug\_panic>

c002a452: b9 01 00 00 00 mov ecx,0x1

c002a457: e8 4d fc ff ff call c002a0a9 <lookup\_page>

c002a45c: 85 c0 test eax,eax

c002a45e: 74 3d je c002a49d <pagedir\_set\_page+0x14f>

c002a460: 8b 10 mov edx,DWORD PTR [eax]

c002a462: 83 e2 01 and edx,0x1

c002a465: 74 1e je c002a485 <pagedir\_set\_page+0x137>

c002a467: 83 ec 0c sub esp,0xc

c002a46a: 68 c2 0f 03 c0 push 0xc0030fc2

c002a46f: 68 83 ed 02 c0 push 0xc002ed83

c002a474: 68 a4 ea 02 c0 push 0xc002eaa4

c002a479: 6a 77 push 0x77

c002a47b: 68 4b 0f 03 c0 push 0xc0030f4b

c002a480: e8 b8 d4 ff ff call c002793d <debug\_panic>

c002a485: 84 db test bl,bl

c002a487: b9 02 00 00 00 mov ecx,0x2

c002a48c: 0f 45 d1 cmovne edx,ecx

c002a48f: 83 ce 05 or esi,0x5

c002a492: 09 f2 or edx,esi

c002a494: 89 10 mov DWORD PTR [eax],edx

c002a496: b8 01 00 00 00 mov eax,0x1

c002a49b: eb 05 jmp c002a4a2 <pagedir\_set\_page+0x154>

c002a49d: b8 00 00 00 00 mov eax,0x0

c002a4a2: 83 c4 04 add esp,0x4

c002a4a5: 5b pop ebx

c002a4a6: 5e pop esi

c002a4a7: c3 ret

c002a4a8 <pagedir\_get\_page>:

c002a4a8: 53 push ebx

c002a4a9: 83 ec 08 sub esp,0x8

c002a4ac: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c002a4b0: 81 fb ff ff ff bf cmp ebx,0xbfffffff

c002a4b6: 76 21 jbe c002a4d9 <pagedir\_get\_page+0x31>

c002a4b8: 83 ec 0c sub esp,0xc

c002a4bb: 68 d6 0f 03 c0 push 0xc0030fd6

c002a4c0: 68 83 ed 02 c0 push 0xc002ed83

c002a4c5: 68 70 ea 02 c0 push 0xc002ea70

c002a4ca: 68 89 00 00 00 push 0x89

c002a4cf: 68 4b 0f 03 c0 push 0xc0030f4b

c002a4d4: e8 64 d4 ff ff call c002793d <debug\_panic>

c002a4d9: b9 00 00 00 00 mov ecx,0x0

c002a4de: 89 da mov edx,ebx

c002a4e0: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002a4e4: e8 c0 fb ff ff call c002a0a9 <lookup\_page>

c002a4e9: 85 c0 test eax,eax

c002a4eb: 74 3f je c002a52c <pagedir\_get\_page+0x84>

c002a4ed: 8b 00 mov eax,DWORD PTR [eax]

c002a4ef: a8 01 test al,0x1

c002a4f1: 74 40 je c002a533 <pagedir\_get\_page+0x8b>

c002a4f3: 25 00 f0 ff ff and eax,0xfffff000

c002a4f8: 3d ff ff ff bf cmp eax,0xbfffffff

c002a4fd: 76 1e jbe c002a51d <pagedir\_get\_page+0x75>

c002a4ff: 83 ec 0c sub esp,0xc

c002a502: 68 63 fa 02 c0 push 0xc002fa63

c002a507: 68 83 ed 02 c0 push 0xc002ed83

c002a50c: 68 b8 ea 02 c0 push 0xc002eab8

c002a511: 6a 4a push 0x4a

c002a513: 68 c6 ed 02 c0 push 0xc002edc6

c002a518: e8 20 d4 ff ff call c002793d <debug\_panic>

c002a51d: 81 e3 ff 0f 00 00 and ebx,0xfff

c002a523: 8d 84 18 00 00 00 c0 lea eax,[eax+ebx\*1-0x40000000]

c002a52a: eb 0c jmp c002a538 <pagedir\_get\_page+0x90>

c002a52c: b8 00 00 00 00 mov eax,0x0

c002a531: eb 05 jmp c002a538 <pagedir\_get\_page+0x90>

c002a533: b8 00 00 00 00 mov eax,0x0

c002a538: 83 c4 08 add esp,0x8

c002a53b: 5b pop ebx

c002a53c: c3 ret

c002a53d <pagedir\_is\_dirty>:

c002a53d: 83 ec 0c sub esp,0xc

c002a540: b9 00 00 00 00 mov ecx,0x0

c002a545: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002a549: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002a54d: e8 57 fb ff ff call c002a0a9 <lookup\_page>

c002a552: 85 c0 test eax,eax

c002a554: 74 0a je c002a560 <pagedir\_is\_dirty+0x23>

c002a556: 8b 00 mov eax,DWORD PTR [eax]

c002a558: c1 e8 06 shr eax,0x6

c002a55b: 83 e0 01 and eax,0x1

c002a55e: eb 05 jmp c002a565 <pagedir\_is\_dirty+0x28>

c002a560: b8 00 00 00 00 mov eax,0x0

c002a565: 83 e0 01 and eax,0x1

c002a568: 83 c4 0c add esp,0xc

c002a56b: c3 ret

c002a56c <pagedir\_is\_accessed>:

c002a56c: 83 ec 0c sub esp,0xc

c002a56f: b9 00 00 00 00 mov ecx,0x0

c002a574: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002a578: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002a57c: e8 28 fb ff ff call c002a0a9 <lookup\_page>

c002a581: 85 c0 test eax,eax

c002a583: 74 0a je c002a58f <pagedir\_is\_accessed+0x2

3>

c002a585: 8b 00 mov eax,DWORD PTR [eax]

c002a587: c1 e8 05 shr eax,0x5

c002a58a: 83 e0 01 and eax,0x1

c002a58d: eb 05 jmp c002a594 <pagedir\_is\_accessed+0x2

8>

c002a58f: b8 00 00 00 00 mov eax,0x0

c002a594: 83 e0 01 and eax,0x1

c002a597: 83 c4 0c add esp,0xc

c002a59a: c3 ret

c002a59b <pagedir\_activate>:

c002a59b: 83 ec 0c sub esp,0xc

c002a59e: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002a5a2: 85 c0 test eax,eax

c002a5a4: 0f 44 05 44 ba 03 c0 cmove eax,DWORD PTR ds:0xc003ba44

c002a5ab: 3d ff ff ff bf cmp eax,0xbfffffff

c002a5b0: 77 1e ja c002a5d0 <pagedir\_activate+0x35>

c002a5b2: 83 ec 0c sub esp,0xc

c002a5b5: 68 ae ed 02 c0 push 0xc002edae

c002a5ba: 68 83 ed 02 c0 push 0xc002ed83

c002a5bf: 68 9c ea 02 c0 push 0xc002ea9c

c002a5c4: 6a 54 push 0x54

c002a5c6: 68 c6 ed 02 c0 push 0xc002edc6

c002a5cb: e8 6d d3 ff ff call c002793d <debug\_panic>

c002a5d0: 05 00 00 00 40 add eax,0x40000000

c002a5d5: 0f 22 d8 mov cr3,eax

c002a5d8: 83 c4 0c add esp,0xc

c002a5db: c3 ret

c002a5dc <invalidate\_pagedir>:

c002a5dc: 83 ec 0c sub esp,0xc

c002a5df: 0f 20 da mov edx,cr3

c002a5e2: 81 fa ff ff ff bf cmp edx,0xbfffffff

c002a5e8: 76 1e jbe c002a608 <invalidate\_pagedir+0x2c

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c002a5ea: 83 ec 0c sub esp,0xc

c002a5ed: 68 63 fa 02 c0 push 0xc002fa63

c002a5f2: 68 83 ed 02 c0 push 0xc002ed83

c002a5f7: 68 b8 ea 02 c0 push 0xc002eab8

c002a5fc: 6a 4a push 0x4a

c002a5fe: 68 c6 ed 02 c0 push 0xc002edc6

c002a603: e8 35 d3 ff ff call c002793d <debug\_panic>

c002a608: 81 ea 00 00 00 40 sub edx,0x40000000

c002a60e: 39 d0 cmp eax,edx

c002a610: 75 0c jne c002a61e <invalidate\_pagedir+0x42

>

c002a612: 83 ec 0c sub esp,0xc

c002a615: 50 push eax

c002a616: e8 80 ff ff ff call c002a59b <pagedir\_activate>

c002a61b: 83 c4 10 add esp,0x10

c002a61e: 83 c4 0c add esp,0xc

c002a621: c3 ret

c002a622 <pagedir\_clear\_page>:

c002a622: 53 push ebx

c002a623: 83 ec 08 sub esp,0x8

c002a626: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002a62a: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002a62e: f7 c2 ff 0f 00 00 test edx,0xfff

c002a634: 74 21 je c002a657 <pagedir\_clear\_page+0x35

>

c002a636: 83 ec 0c sub esp,0xc

c002a639: 68 84 0f 03 c0 push 0xc0030f84

c002a63e: 68 83 ed 02 c0 push 0xc002ed83

c002a643: 68 5c ea 02 c0 push 0xc002ea5c

c002a648: 68 9b 00 00 00 push 0x9b

c002a64d: 68 4b 0f 03 c0 push 0xc0030f4b

c002a652: e8 e6 d2 ff ff call c002793d <debug\_panic>

c002a657: 81 fa ff ff ff bf cmp edx,0xbfffffff

c002a65d: 76 21 jbe c002a680 <pagedir\_clear\_page+0x5e

>

c002a65f: 83 ec 0c sub esp,0xc

c002a662: 68 ac 0f 03 c0 push 0xc0030fac

c002a667: 68 83 ed 02 c0 push 0xc002ed83

c002a66c: 68 5c ea 02 c0 push 0xc002ea5c

c002a671: 68 9c 00 00 00 push 0x9c

c002a676: 68 4b 0f 03 c0 push 0xc0030f4b

c002a67b: e8 bd d2 ff ff call c002793d <debug\_panic>

c002a680: b9 00 00 00 00 mov ecx,0x0

c002a685: 89 d8 mov eax,ebx

c002a687: e8 1d fa ff ff call c002a0a9 <lookup\_page>

c002a68c: 85 c0 test eax,eax

c002a68e: 74 13 je c002a6a3 <pagedir\_clear\_page+0x81

>

c002a690: 8b 10 mov edx,DWORD PTR [eax]

c002a692: f6 c2 01 test dl,0x1

c002a695: 74 0c je c002a6a3 <pagedir\_clear\_page+0x81

>

c002a697: 83 e2 fe and edx,0xfffffffe

c002a69a: 89 10 mov DWORD PTR [eax],edx

c002a69c: 89 d8 mov eax,ebx

c002a69e: e8 39 ff ff ff call c002a5dc <invalidate\_pagedir>

c002a6a3: 83 c4 08 add esp,0x8

c002a6a6: 5b pop ebx

c002a6a7: c3 ret

c002a6a8 <pagedir\_set\_dirty>:

c002a6a8: 56 push esi

c002a6a9: 53 push ebx

c002a6aa: 83 ec 04 sub esp,0x4

c002a6ad: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002a6b1: 8b 5c 24 18 mov ebx,DWORD PTR [esp+0x18]

c002a6b5: b9 00 00 00 00 mov ecx,0x0

c002a6ba: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002a6be: 89 f0 mov eax,esi

c002a6c0: e8 e4 f9 ff ff call c002a0a9 <lookup\_page>

c002a6c5: 85 c0 test eax,eax

c002a6c7: 74 13 je c002a6dc <pagedir\_set\_dirty+0x34>

c002a6c9: 84 db test bl,bl

c002a6cb: 74 05 je c002a6d2 <pagedir\_set\_dirty+0x2a>

c002a6cd: 83 08 40 or DWORD PTR [eax],0x40

c002a6d0: eb 0a jmp c002a6dc <pagedir\_set\_dirty+0x34>

c002a6d2: 83 20 bf and DWORD PTR [eax],0xffffffbf

c002a6d5: 89 f0 mov eax,esi

c002a6d7: e8 00 ff ff ff call c002a5dc <invalidate\_pagedir>

c002a6dc: 83 c4 04 add esp,0x4

c002a6df: 5b pop ebx

c002a6e0: 5e pop esi

c002a6e1: c3 ret

c002a6e2 <pagedir\_set\_accessed>:

c002a6e2: 56 push esi

c002a6e3: 53 push ebx

c002a6e4: 83 ec 04 sub esp,0x4

c002a6e7: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002a6eb: 8b 5c 24 18 mov ebx,DWORD PTR [esp+0x18]

c002a6ef: b9 00 00 00 00 mov ecx,0x0

c002a6f4: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002a6f8: 89 f0 mov eax,esi

c002a6fa: e8 aa f9 ff ff call c002a0a9 <lookup\_page>

c002a6ff: 85 c0 test eax,eax

c002a701: 74 13 je c002a716 <pagedir\_set\_accessed+0x

34>

c002a703: 84 db test bl,bl

c002a705: 74 05 je c002a70c <pagedir\_set\_accessed+0x

2a>

c002a707: 83 08 20 or DWORD PTR [eax],0x20

c002a70a: eb 0a jmp c002a716 <pagedir\_set\_accessed+0x

34>

c002a70c: 83 20 df and DWORD PTR [eax],0xffffffdf

c002a70f: 89 f0 mov eax,esi

c002a711: e8 c6 fe ff ff call c002a5dc <invalidate\_pagedir>

c002a716: 83 c4 04 add esp,0x4

c002a719: 5b pop ebx

c002a71a: 5e pop esi

c002a71b: c3 ret

c002a71c <kill>:

c002a71c: 57 push edi

c002a71d: 56 push esi

c002a71e: 53 push ebx

c002a71f: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002a723: 0f b7 73 40 movzx esi,WORD PTR [ebx+0x40]

c002a727: 66 83 fe 08 cmp si,0x8

c002a72b: 74 3f je c002a76c <kill+0x50>

c002a72d: 66 83 fe 1b cmp si,0x1b

c002a731: 75 58 jne c002a78b <kill+0x6f>

c002a733: 83 ec 0c sub esp,0xc

c002a736: 0f b6 43 30 movzx eax,BYTE PTR [ebx+0x30]

c002a73a: 50 push eax

c002a73b: e8 c0 71 ff ff call c0021900 <intr\_name>

c002a740: 89 c7 mov edi,eax

c002a742: 8b 73 30 mov esi,DWORD PTR [ebx+0x30]

c002a745: e8 65 65 ff ff call c0020caf <thread\_name>

c002a74a: 57 push edi

c002a74b: 56 push esi

c002a74c: 50 push eax

c002a74d: 68 3c 10 03 c0 push 0xc003103c

c002a752: e8 6e b5 ff ff call c0025cc5 <printf>

c002a757: 83 c4 14 add esp,0x14

c002a75a: 53 push ebx

c002a75b: e8 13 71 ff ff call c0021873 <intr\_dump\_frame>

c002a760: c7 04 24 ff ff ff ff mov DWORD PTR [esp],0xffffffff

c002a767: e8 ca 03 00 00 call c002ab36 <exit>

c002a76c: 83 ec 0c sub esp,0xc

c002a76f: 53 push ebx

c002a770: e8 fe 70 ff ff call c0021873 <intr\_dump\_frame>

c002a775: 68 64 10 03 c0 push 0xc0031064

c002a77a: 68 dc ea 02 c0 push 0xc002eadc

c002a77f: 6a 68 push 0x68

c002a781: 68 f3 10 03 c0 push 0xc00310f3

c002a786: e8 b2 d1 ff ff call c002793d <debug\_panic>

c002a78b: 83 ec 0c sub esp,0xc

c002a78e: 0f b6 43 30 movzx eax,BYTE PTR [ebx+0x30]

c002a792: 50 push eax

c002a793: e8 68 71 ff ff call c0021900 <intr\_name>

c002a798: 0f b7 f6 movzx esi,si

c002a79b: 56 push esi

c002a79c: 50 push eax

c002a79d: ff 73 30 push DWORD PTR [ebx+0x30]

c002a7a0: 68 90 10 03 c0 push 0xc0031090

c002a7a5: e8 1b b5 ff ff call c0025cc5 <printf>

c002a7aa: 83 c4 20 add esp,0x20

c002a7ad: e8 8d 6a ff ff call c002123f <thread\_exit>

c002a7b2 <page\_fault>:

c002a7b2: 55 push ebp

c002a7b3: 57 push edi

c002a7b4: 56 push esi

c002a7b5: 53 push ebx

c002a7b6: 83 ec 1c sub esp,0x1c

c002a7b9: 89 e0 mov eax,esp

c002a7bb: 0f 20 d3 mov ebx,cr2

c002a7be: e8 8b 6c ff ff call c002144e <intr\_enable>

c002a7c3: 83 05 80 b7 03 c0 01 add DWORD PTR ds:0xc003b780,0x1

c002a7ca: 83 15 84 b7 03 c0 00 adc DWORD PTR ds:0xc003b784,0x0

c002a7d1: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002a7d5: 8b 70 34 mov esi,DWORD PTR [eax+0x34]

c002a7d8: 89 f7 mov edi,esi

c002a7da: 83 e7 01 and edi,0x1

c002a7dd: 8d 83 ff 7f fb f7 lea eax,[ebx-0x8048001]

c002a7e3: 3d fe 7f fb b7 cmp eax,0xb7fb7ffe

c002a7e8: 77 4a ja c002a834 <page\_fault+0x82>

c002a7ea: 85 ff test edi,edi

c002a7ec: 75 46 jne c002a834 <page\_fault+0x82>

c002a7ee: 83 ec 0c sub esp,0xc

c002a7f1: 53 push ebx

c002a7f2: e8 30 28 00 00 call c002d027 <get\_spte>

c002a7f7: 89 c5 mov ebp,eax

c002a7f9: 83 c4 10 add esp,0x10

c002a7fc: 85 c0 test eax,eax

c002a7fe: 74 12 je c002a812 <page\_fault+0x60>

c002a800: 83 ec 0c sub esp,0xc

c002a803: 50 push eax

c002a804: e8 8b 29 00 00 call c002d194 <load\_page>

c002a809: c6 45 0a 00 mov BYTE PTR [ebp+0xa],0x0

c002a80d: 83 c4 10 add esp,0x10

c002a810: eb 1e jmp c002a830 <page\_fault+0x7e>

c002a812: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002a816: 8b 40 48 mov eax,DWORD PTR [eax+0x48]

c002a819: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c002a81d: 83 e8 20 sub eax,0x20

c002a820: 39 c3 cmp ebx,eax

c002a822: 72 10 jb c002a834 <page\_fault+0x82>

c002a824: 83 ec 0c sub esp,0xc

c002a827: 53 push ebx

c002a828: e8 cd 2a 00 00 call c002d2fa <grow\_stack>

c002a82d: 83 c4 10 add esp,0x10

c002a830: 84 c0 test al,al

c002a832: 75 4e jne c002a882 <page\_fault+0xd0>

c002a834: 89 f0 mov eax,esi

c002a836: 83 e0 04 and eax,0x4

c002a839: b8 b8 ff 02 c0 mov eax,0xc002ffb8

c002a83e: ba 0e 11 03 c0 mov edx,0xc003110e

c002a843: 0f 44 d0 cmove edx,eax

c002a846: 83 e6 02 and esi,0x2

c002a849: b8 1b 11 03 c0 mov eax,0xc003111b

c002a84e: b9 13 11 03 c0 mov ecx,0xc0031113

c002a853: 0f 44 c8 cmove ecx,eax

c002a856: 85 ff test edi,edi

c002a858: be 2f 11 03 c0 mov esi,0xc003112f

c002a85d: b8 23 11 03 c0 mov eax,0xc0031123

c002a862: 0f 45 c6 cmovne eax,esi

c002a865: 83 ec 0c sub esp,0xc

c002a868: 52 push edx

c002a869: 51 push ecx

c002a86a: 50 push eax

c002a86b: 53 push ebx

c002a86c: 68 c0 10 03 c0 push 0xc00310c0

c002a871: e8 4f b4 ff ff call c0025cc5 <printf>

c002a876: 83 c4 14 add esp,0x14

c002a879: ff 74 24 3c push DWORD PTR [esp+0x3c]

c002a87d: e8 9a fe ff ff call c002a71c <kill>

c002a882: 83 c4 1c add esp,0x1c

c002a885: 5b pop ebx

c002a886: 5e pop esi

c002a887: 5f pop edi

c002a888: 5d pop ebp

c002a889: c3 ret

c002a88a <exception\_init>:

c002a88a: 83 ec 18 sub esp,0x18

c002a88d: 68 26 f6 02 c0 push 0xc002f626

c002a892: 68 1c a7 02 c0 push 0xc002a71c

c002a897: 6a 01 push 0x1

c002a899: 6a 03 push 0x3

c002a89b: 6a 03 push 0x3

c002a89d: e8 d0 6d ff ff call c0021672 <intr\_register\_int>

c002a8a2: 83 c4 14 add esp,0x14

c002a8a5: 68 3f f6 02 c0 push 0xc002f63f

c002a8aa: 68 1c a7 02 c0 push 0xc002a71c

c002a8af: 6a 01 push 0x1

c002a8b1: 6a 03 push 0x3

c002a8b3: 6a 04 push 0x4

c002a8b5: e8 b8 6d ff ff call c0021672 <intr\_register\_int>

c002a8ba: 83 c4 14 add esp,0x14

c002a8bd: 68 7c f7 02 c0 push 0xc002f77c

c002a8c2: 68 1c a7 02 c0 push 0xc002a71c

c002a8c7: 6a 01 push 0x1

c002a8c9: 6a 03 push 0x3

c002a8cb: 6a 05 push 0x5

c002a8cd: e8 a0 6d ff ff call c0021672 <intr\_register\_int>

c002a8d2: 83 c4 14 add esp,0x14

c002a8d5: 68 f3 f5 02 c0 push 0xc002f5f3

c002a8da: 68 1c a7 02 c0 push 0xc002a71c

c002a8df: 6a 01 push 0x1

c002a8e1: 6a 00 push 0x0

c002a8e3: 6a 00 push 0x0

c002a8e5: e8 88 6d ff ff call c0021672 <intr\_register\_int>

c002a8ea: 83 c4 14 add esp,0x14

c002a8ed: 68 04 f6 02 c0 push 0xc002f604

c002a8f2: 68 1c a7 02 c0 push 0xc002a71c

c002a8f7: 6a 01 push 0x1

c002a8f9: 6a 00 push 0x0

c002a8fb: 6a 01 push 0x1

c002a8fd: e8 70 6d ff ff call c0021672 <intr\_register\_int>

c002a902: 83 c4 14 add esp,0x14

c002a905: 68 56 f6 02 c0 push 0xc002f656

c002a90a: 68 1c a7 02 c0 push 0xc002a71c

c002a90f: 6a 01 push 0x1

c002a911: 6a 00 push 0x0

c002a913: 6a 06 push 0x6

c002a915: e8 58 6d ff ff call c0021672 <intr\_register\_int>

c002a91a: 83 c4 14 add esp,0x14

c002a91d: 68 a0 f7 02 c0 push 0xc002f7a0

c002a922: 68 1c a7 02 c0 push 0xc002a71c

c002a927: 6a 01 push 0x1

c002a929: 6a 00 push 0x0

c002a92b: 6a 07 push 0x7

c002a92d: e8 40 6d ff ff call c0021672 <intr\_register\_int>

c002a932: 83 c4 14 add esp,0x14

c002a935: 68 c4 f6 02 c0 push 0xc002f6c4

c002a93a: 68 1c a7 02 c0 push 0xc002a71c

c002a93f: 6a 01 push 0x1

c002a941: 6a 00 push 0x0

c002a943: 6a 0b push 0xb

c002a945: e8 28 6d ff ff call c0021672 <intr\_register\_int>

c002a94a: 83 c4 14 add esp,0x14

c002a94d: 68 dc f6 02 c0 push 0xc002f6dc

c002a952: 68 1c a7 02 c0 push 0xc002a71c

c002a957: 6a 01 push 0x1

c002a959: 6a 00 push 0x0

c002a95b: 6a 0c push 0xc

c002a95d: e8 10 6d ff ff call c0021672 <intr\_register\_int>

c002a962: 83 c4 14 add esp,0x14

c002a965: 68 c4 f7 02 c0 push 0xc002f7c4

c002a96a: 68 1c a7 02 c0 push 0xc002a71c

c002a96f: 6a 01 push 0x1

c002a971: 6a 00 push 0x0

c002a973: 6a 0d push 0xd

c002a975: e8 f8 6c ff ff call c0021672 <intr\_register\_int>

c002a97a: 83 c4 14 add esp,0x14

c002a97d: 68 e8 f7 02 c0 push 0xc002f7e8

c002a982: 68 1c a7 02 c0 push 0xc002a71c

c002a987: 6a 01 push 0x1

c002a989: 6a 00 push 0x0

c002a98b: 6a 10 push 0x10

c002a98d: e8 e0 6c ff ff call c0021672 <intr\_register\_int>

c002a992: 83 c4 14 add esp,0x14

c002a995: 68 0c f8 02 c0 push 0xc002f80c

c002a99a: 68 1c a7 02 c0 push 0xc002a71c

c002a99f: 6a 01 push 0x1

c002a9a1: 6a 00 push 0x0

c002a9a3: 6a 13 push 0x13

c002a9a5: e8 c8 6c ff ff call c0021672 <intr\_register\_int>

c002a9aa: 83 c4 14 add esp,0x14

c002a9ad: 68 f6 f6 02 c0 push 0xc002f6f6

c002a9b2: 68 b2 a7 02 c0 push 0xc002a7b2

c002a9b7: 6a 00 push 0x0

c002a9b9: 6a 00 push 0x0

c002a9bb: 6a 0e push 0xe

c002a9bd: e8 b0 6c ff ff call c0021672 <intr\_register\_int>

c002a9c2: 83 c4 2c add esp,0x2c

c002a9c5: c3 ret

c002a9c6 <exception\_print\_stats>:

c002a9c6: 83 ec 10 sub esp,0x10

c002a9c9: ff 35 84 b7 03 c0 push DWORD PTR ds:0xc003b784

c002a9cf: ff 35 80 b7 03 c0 push DWORD PTR ds:0xc003b780

c002a9d5: 68 40 11 03 c0 push 0xc0031140

c002a9da: e8 e6 b2 ff ff call c0025cc5 <printf>

c002a9df: 83 c4 1c add esp,0x1c

c002a9e2: c3 ret

c002a9e3 <syscall\_init>:

c002a9e3: 83 ec 18 sub esp,0x18

c002a9e6: 68 20 ba 03 c0 push 0xc003ba20

c002a9eb: e8 11 7d ff ff call c0022701 <lock\_init>

c002a9f0: c7 04 24 5d 11 03 c0 mov DWORD PTR [esp],0xc003115d

c002a9f7: 68 d7 b1 02 c0 push 0xc002b1d7

c002a9fc: 6a 01 push 0x1

c002a9fe: 6a 03 push 0x3

c002aa00: 6a 30 push 0x30

c002aa02: e8 6b 6c ff ff call c0021672 <intr\_register\_int>

c002aa07: 83 c4 2c add esp,0x2c

c002aa0a: c3 ret

c002aa0b <mmap>:

c002aa0b: 55 push ebp

c002aa0c: 57 push edi

c002aa0d: 56 push esi

c002aa0e: 53 push ebx

c002aa0f: 83 ec 28 sub esp,0x28

c002aa12: 8b 7c 24 40 mov edi,DWORD PTR [esp+0x40]

c002aa16: ff 74 24 3c push DWORD PTR [esp+0x3c]

c002aa1a: e8 e6 f2 ff ff call c0029d05 <process\_get\_file>

c002aa1f: 89 c3 mov ebx,eax

c002aa21: 8d 87 00 80 fb f7 lea eax,[edi-0x8048000]

c002aa27: 83 c4 10 add esp,0x10

c002aa2a: 3d ff 7f fb b7 cmp eax,0xb7fb7fff

c002aa2f: 0f 87 c7 00 00 00 ja c002aafc <mmap+0xf1>

c002aa35: 85 db test ebx,ebx

c002aa37: 0f 84 bf 00 00 00 je c002aafc <mmap+0xf1>

c002aa3d: f7 c7 ff 0f 00 00 test edi,0xfff

c002aa43: 0f 85 ba 00 00 00 jne c002ab03 <mmap+0xf8>

c002aa49: 83 ec 0c sub esp,0xc

c002aa4c: 53 push ebx

c002aa4d: e8 3f 10 00 00 call c002ba91 <file\_reopen>

c002aa52: 89 c6 mov esi,eax

c002aa54: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c002aa58: 83 c4 10 add esp,0x10

c002aa5b: 85 c0 test eax,eax

c002aa5d: 0f 84 a7 00 00 00 je c002ab0a <mmap+0xff>

c002aa63: 83 ec 0c sub esp,0xc

c002aa66: 53 push ebx

c002aa67: e8 80 11 00 00 call c002bbec <file\_length>

c002aa6c: 83 c4 10 add esp,0x10

c002aa6f: 85 c0 test eax,eax

c002aa71: 0f 84 9a 00 00 00 je c002ab11 <mmap+0x106>

c002aa77: e8 6f 61 ff ff call c0020beb <thread\_current>

c002aa7c: 83 80 a0 00 00 00 01 add DWORD PTR [eax+0xa0],0x1

c002aa83: 83 ec 0c sub esp,0xc

c002aa86: 56 push esi

c002aa87: e8 60 11 00 00 call c002bbec <file\_length>

c002aa8c: 89 c6 mov esi,eax

c002aa8e: 83 c4 10 add esp,0x10

c002aa91: 85 c0 test eax,eax

c002aa93: 74 5a je c002aaef <mmap+0xe4>

c002aa95: bd 00 00 00 00 mov ebp,0x0

c002aa9a: 81 fe 00 10 00 00 cmp esi,0x1000

c002aaa0: bb 00 10 00 00 mov ebx,0x1000

c002aaa5: 0f 46 de cmovbe ebx,esi

c002aaa8: 83 ec 0c sub esp,0xc

c002aaab: b8 00 10 00 00 mov eax,0x1000

c002aab0: 29 d8 sub eax,ebx

c002aab2: 50 push eax

c002aab3: 53 push ebx

c002aab4: 57 push edi

c002aab5: 55 push ebp

c002aab6: ff 74 24 28 push DWORD PTR [esp+0x28]

c002aaba: e8 a3 27 00 00 call c002d262 <add\_mmap\_to\_page\_table>

c002aabf: 83 c4 20 add esp,0x20

c002aac2: 84 c0 test al,al

c002aac4: 75 1d jne c002aae3 <mmap+0xd8>

c002aac6: e8 20 61 ff ff call c0020beb <thread\_current>

c002aacb: 83 ec 0c sub esp,0xc

c002aace: ff b0 a0 00 00 00 push DWORD PTR [eax+0xa0]

c002aad4: e8 50 f3 ff ff call c0029e29 <process\_remove\_mmap>

c002aad9: 83 c4 10 add esp,0x10

c002aadc: b8 ff ff ff ff mov eax,0xffffffff

c002aae1: eb 33 jmp c002ab16 <mmap+0x10b>

c002aae3: 01 dd add ebp,ebx

c002aae5: 81 c7 00 10 00 00 add edi,0x1000

c002aaeb: 29 de sub esi,ebx

c002aaed: 75 ab jne c002aa9a <mmap+0x8f>

c002aaef: e8 f7 60 ff ff call c0020beb <thread\_current>

c002aaf4: 8b 80 a0 00 00 00 mov eax,DWORD PTR [eax+0xa0]

c002aafa: eb 1a jmp c002ab16 <mmap+0x10b>

c002aafc: b8 ff ff ff ff mov eax,0xffffffff

c002ab01: eb 13 jmp c002ab16 <mmap+0x10b>

c002ab03: b8 ff ff ff ff mov eax,0xffffffff

c002ab08: eb 0c jmp c002ab16 <mmap+0x10b>

c002ab0a: b8 ff ff ff ff mov eax,0xffffffff

c002ab0f: eb 05 jmp c002ab16 <mmap+0x10b>

c002ab11: b8 ff ff ff ff mov eax,0xffffffff

c002ab16: 83 c4 1c add esp,0x1c

c002ab19: 5b pop ebx

c002ab1a: 5e pop esi

c002ab1b: 5f pop edi

c002ab1c: 5d pop ebp

c002ab1d: c3 ret

c002ab1e <munmap>:

c002ab1e: 83 ec 18 sub esp,0x18

c002ab21: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ab25: e8 ff f2 ff ff call c0029e29 <process\_remove\_mmap>

c002ab2a: 83 c4 1c add esp,0x1c

c002ab2d: c3 ret

c002ab2e <halt>:

c002ab2e: 83 ec 0c sub esp,0xc

c002ab31: e8 be aa ff ff call c00255f4 <shutdown\_power\_off>

c002ab36 <exit>:

c002ab36: 56 push esi

c002ab37: 53 push ebx

c002ab38: 83 ec 04 sub esp,0x4

c002ab3b: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002ab3f: e8 a7 60 ff ff call c0020beb <thread\_current>

c002ab44: 89 c3 mov ebx,eax

c002ab46: 83 ec 0c sub esp,0xc

c002ab49: ff 70 6c push DWORD PTR [eax+0x6c]

c002ab4c: e8 49 66 ff ff call c002119a <thread\_alive>

c002ab51: 83 c4 10 add esp,0x10

c002ab54: 84 c0 test al,al

c002ab56: 74 0a je c002ab62 <exit+0x2c>

c002ab58: 8b 43 70 mov eax,DWORD PTR [ebx+0x70]

c002ab5b: 85 c0 test eax,eax

c002ab5d: 74 03 je c002ab62 <exit+0x2c>

c002ab5f: 89 70 0c mov DWORD PTR [eax+0xc],esi

c002ab62: 83 ec 04 sub esp,0x4

c002ab65: 56 push esi

c002ab66: 83 c3 08 add ebx,0x8

c002ab69: 53 push ebx

c002ab6a: 68 65 11 03 c0 push 0xc0031165

c002ab6f: e8 51 b1 ff ff call c0025cc5 <printf>

c002ab74: e8 c6 66 ff ff call c002123f <thread\_exit>

c002ab79 <wait>:

c002ab79: 83 ec 18 sub esp,0x18

c002ab7c: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ab80: e8 22 ea ff ff call c00295a7 <process\_wait>

c002ab85: 83 c4 1c add esp,0x1c

c002ab88: c3 ret

c002ab89 <create>:

c002ab89: 53 push ebx

c002ab8a: 83 ec 14 sub esp,0x14

c002ab8d: 68 20 ba 03 c0 push 0xc003ba20

c002ab92: e8 ec 7b ff ff call c0022783 <lock\_acquire>

c002ab97: 83 c4 08 add esp,0x8

c002ab9a: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ab9e: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002aba2: e8 27 0b 00 00 call c002b6ce <filesys\_create>

c002aba7: 89 c3 mov ebx,eax

c002aba9: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002abb0: e8 1e 7d ff ff call c00228d3 <lock\_release>

c002abb5: 89 d8 mov eax,ebx

c002abb7: 83 c4 18 add esp,0x18

c002abba: 5b pop ebx

c002abbb: c3 ret

c002abbc <remove>:

c002abbc: 53 push ebx

c002abbd: 83 ec 14 sub esp,0x14

c002abc0: 68 20 ba 03 c0 push 0xc003ba20

c002abc5: e8 b9 7b ff ff call c0022783 <lock\_acquire>

c002abca: 83 c4 04 add esp,0x4

c002abcd: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002abd1: e8 db 0b 00 00 call c002b7b1 <filesys\_remove>

c002abd6: 89 c3 mov ebx,eax

c002abd8: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002abdf: e8 ef 7c ff ff call c00228d3 <lock\_release>

c002abe4: 89 d8 mov eax,ebx

c002abe6: 83 c4 18 add esp,0x18

c002abe9: 5b pop ebx

c002abea: c3 ret

c002abeb <open>:

c002abeb: 53 push ebx

c002abec: 83 ec 14 sub esp,0x14

c002abef: 68 20 ba 03 c0 push 0xc003ba20

c002abf4: e8 8a 7b ff ff call c0022783 <lock\_acquire>

c002abf9: 83 c4 04 add esp,0x4

c002abfc: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ac00: e8 59 0b 00 00 call c002b75e <filesys\_open>

c002ac05: 83 c4 10 add esp,0x10

c002ac08: 85 c0 test eax,eax

c002ac0a: 75 17 jne c002ac23 <open+0x38>

c002ac0c: 83 ec 0c sub esp,0xc

c002ac0f: 68 20 ba 03 c0 push 0xc003ba20

c002ac14: e8 ba 7c ff ff call c00228d3 <lock\_release>

c002ac19: 83 c4 10 add esp,0x10

c002ac1c: b8 ff ff ff ff mov eax,0xffffffff

c002ac21: eb 1c jmp c002ac3f <open+0x54>

c002ac23: 83 ec 0c sub esp,0xc

c002ac26: 50 push eax

c002ac27: e8 84 f0 ff ff call c0029cb0 <process\_add\_file>

c002ac2c: 89 c3 mov ebx,eax

c002ac2e: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ac35: e8 99 7c ff ff call c00228d3 <lock\_release>

c002ac3a: 83 c4 10 add esp,0x10

c002ac3d: 89 d8 mov eax,ebx

c002ac3f: 83 c4 08 add esp,0x8

c002ac42: 5b pop ebx

c002ac43: c3 ret

c002ac44 <filesize>:

c002ac44: 53 push ebx

c002ac45: 83 ec 14 sub esp,0x14

c002ac48: 68 20 ba 03 c0 push 0xc003ba20

c002ac4d: e8 31 7b ff ff call c0022783 <lock\_acquire>

c002ac52: 83 c4 04 add esp,0x4

c002ac55: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ac59: e8 a7 f0 ff ff call c0029d05 <process\_get\_file>

c002ac5e: 83 c4 10 add esp,0x10

c002ac61: 85 c0 test eax,eax

c002ac63: 75 17 jne c002ac7c <filesize+0x38>

c002ac65: 83 ec 0c sub esp,0xc

c002ac68: 68 20 ba 03 c0 push 0xc003ba20

c002ac6d: e8 61 7c ff ff call c00228d3 <lock\_release>

c002ac72: 83 c4 10 add esp,0x10

c002ac75: b8 ff ff ff ff mov eax,0xffffffff

c002ac7a: eb 1c jmp c002ac98 <filesize+0x54>

c002ac7c: 83 ec 0c sub esp,0xc

c002ac7f: 50 push eax

c002ac80: e8 67 0f 00 00 call c002bbec <file\_length>

c002ac85: 89 c3 mov ebx,eax

c002ac87: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ac8e: e8 40 7c ff ff call c00228d3 <lock\_release>

c002ac93: 83 c4 10 add esp,0x10

c002ac96: 89 d8 mov eax,ebx

c002ac98: 83 c4 08 add esp,0x8

c002ac9b: 5b pop ebx

c002ac9c: c3 ret

c002ac9d <read>:

c002ac9d: 57 push edi

c002ac9e: 56 push esi

c002ac9f: 53 push ebx

c002aca0: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002aca4: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c002aca8: 8b 7c 24 18 mov edi,DWORD PTR [esp+0x18]

c002acac: 85 db test ebx,ebx

c002acae: 75 1a jne c002acca <read+0x2d>

c002acb0: 85 ff test edi,edi

c002acb2: 74 12 je c002acc6 <read+0x29>

c002acb4: 89 f3 mov ebx,esi

c002acb6: 01 fe add esi,edi

c002acb8: e8 84 a3 ff ff call c0025041 <input\_getc>

c002acbd: 88 03 mov BYTE PTR [ebx],al

c002acbf: 83 c3 01 add ebx,0x1

c002acc2: 39 f3 cmp ebx,esi

c002acc4: 75 f2 jne c002acb8 <read+0x1b>

c002acc6: 89 f8 mov eax,edi

c002acc8: eb 51 jmp c002ad1b <read+0x7e>

c002acca: 83 ec 0c sub esp,0xc

c002accd: 68 20 ba 03 c0 push 0xc003ba20

c002acd2: e8 ac 7a ff ff call c0022783 <lock\_acquire>

c002acd7: 89 1c 24 mov DWORD PTR [esp],ebx

c002acda: e8 26 f0 ff ff call c0029d05 <process\_get\_file>

c002acdf: 83 c4 10 add esp,0x10

c002ace2: 85 c0 test eax,eax

c002ace4: 75 17 jne c002acfd <read+0x60>

c002ace6: 83 ec 0c sub esp,0xc

c002ace9: 68 20 ba 03 c0 push 0xc003ba20

c002acee: e8 e0 7b ff ff call c00228d3 <lock\_release>

c002acf3: 83 c4 10 add esp,0x10

c002acf6: b8 ff ff ff ff mov eax,0xffffffff

c002acfb: eb 1e jmp c002ad1b <read+0x7e>

c002acfd: 83 ec 04 sub esp,0x4

c002ad00: 57 push edi

c002ad01: 56 push esi

c002ad02: 50 push eax

c002ad03: e8 aa 0d 00 00 call c002bab2 <file\_read>

c002ad08: 89 c7 mov edi,eax

c002ad0a: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ad11: e8 bd 7b ff ff call c00228d3 <lock\_release>

c002ad16: 83 c4 10 add esp,0x10

c002ad19: 89 f8 mov eax,edi

c002ad1b: 5b pop ebx

c002ad1c: 5e pop esi

c002ad1d: 5f pop edi

c002ad1e: c3 ret

c002ad1f <write>:

c002ad1f: 56 push esi

c002ad20: 53 push ebx

c002ad21: 83 ec 04 sub esp,0x4

c002ad24: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002ad28: 8b 5c 24 18 mov ebx,DWORD PTR [esp+0x18]

c002ad2c: 83 fe 01 cmp esi,0x1

c002ad2f: 75 14 jne c002ad45 <write+0x26>

c002ad31: 83 ec 08 sub esp,0x8

c002ad34: 53 push ebx

c002ad35: ff 74 24 20 push DWORD PTR [esp+0x20]

c002ad39: e8 51 e7 ff ff call c002948f <putbuf>

c002ad3e: 89 d8 mov eax,ebx

c002ad40: 83 c4 10 add esp,0x10

c002ad43: eb 54 jmp c002ad99 <write+0x7a>

c002ad45: 83 ec 0c sub esp,0xc

c002ad48: 68 20 ba 03 c0 push 0xc003ba20

c002ad4d: e8 31 7a ff ff call c0022783 <lock\_acquire>

c002ad52: 89 34 24 mov DWORD PTR [esp],esi

c002ad55: e8 ab ef ff ff call c0029d05 <process\_get\_file>

c002ad5a: 83 c4 10 add esp,0x10

c002ad5d: 85 c0 test eax,eax

c002ad5f: 75 17 jne c002ad78 <write+0x59>

c002ad61: 83 ec 0c sub esp,0xc

c002ad64: 68 20 ba 03 c0 push 0xc003ba20

c002ad69: e8 65 7b ff ff call c00228d3 <lock\_release>

c002ad6e: 83 c4 10 add esp,0x10

c002ad71: b8 ff ff ff ff mov eax,0xffffffff

c002ad76: eb 21 jmp c002ad99 <write+0x7a>

c002ad78: 83 ec 04 sub esp,0x4

c002ad7b: 53 push ebx

c002ad7c: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ad80: 50 push eax

c002ad81: e8 6c 0d 00 00 call c002baf2 <file\_write>

c002ad86: 89 c3 mov ebx,eax

c002ad88: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ad8f: e8 3f 7b ff ff call c00228d3 <lock\_release>

c002ad94: 83 c4 10 add esp,0x10

c002ad97: 89 d8 mov eax,ebx

c002ad99: 83 c4 04 add esp,0x4

c002ad9c: 5b pop ebx

c002ad9d: 5e pop esi

c002ad9e: c3 ret

c002ad9f <seek>:

c002ad9f: 83 ec 18 sub esp,0x18

c002ada2: 68 20 ba 03 c0 push 0xc003ba20

c002ada7: e8 d7 79 ff ff call c0022783 <lock\_acquire>

c002adac: 83 c4 04 add esp,0x4

c002adaf: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002adb3: e8 4d ef ff ff call c0029d05 <process\_get\_file>

c002adb8: 83 c4 10 add esp,0x10

c002adbb: 85 c0 test eax,eax

c002adbd: 75 12 jne c002add1 <seek+0x32>

c002adbf: 83 ec 0c sub esp,0xc

c002adc2: 68 20 ba 03 c0 push 0xc003ba20

c002adc7: e8 07 7b ff ff call c00228d3 <lock\_release>

c002adcc: 83 c4 10 add esp,0x10

c002adcf: eb 1c jmp c002aded <seek+0x4e>

c002add1: 83 ec 08 sub esp,0x8

c002add4: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002add8: 50 push eax

c002add9: e8 48 0e 00 00 call c002bc26 <file\_seek>

c002adde: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ade5: e8 e9 7a ff ff call c00228d3 <lock\_release>

c002adea: 83 c4 10 add esp,0x10

c002aded: 83 c4 0c add esp,0xc

c002adf0: c3 ret

c002adf1 <tell>:

c002adf1: 53 push ebx

c002adf2: 83 ec 14 sub esp,0x14

c002adf5: 68 20 ba 03 c0 push 0xc003ba20

c002adfa: e8 84 79 ff ff call c0022783 <lock\_acquire>

c002adff: 83 c4 04 add esp,0x4

c002ae02: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ae06: e8 fa ee ff ff call c0029d05 <process\_get\_file>

c002ae0b: 83 c4 10 add esp,0x10

c002ae0e: 85 c0 test eax,eax

c002ae10: 75 17 jne c002ae29 <tell+0x38>

c002ae12: 83 ec 0c sub esp,0xc

c002ae15: 68 20 ba 03 c0 push 0xc003ba20

c002ae1a: e8 b4 7a ff ff call c00228d3 <lock\_release>

c002ae1f: 83 c4 10 add esp,0x10

c002ae22: b8 ff ff ff ff mov eax,0xffffffff

c002ae27: eb 1c jmp c002ae45 <tell+0x54>

c002ae29: 83 ec 0c sub esp,0xc

c002ae2c: 50 push eax

c002ae2d: e8 50 0e 00 00 call c002bc82 <file\_tell>

c002ae32: 89 c3 mov ebx,eax

c002ae34: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ae3b: e8 93 7a ff ff call c00228d3 <lock\_release>

c002ae40: 89 d8 mov eax,ebx

c002ae42: 83 c4 10 add esp,0x10

c002ae45: 83 c4 08 add esp,0x8

c002ae48: 5b pop ebx

c002ae49: c3 ret

c002ae4a <close>:

c002ae4a: 83 ec 18 sub esp,0x18

c002ae4d: 68 20 ba 03 c0 push 0xc003ba20

c002ae52: e8 2c 79 ff ff call c0022783 <lock\_acquire>

c002ae57: 83 c4 04 add esp,0x4

c002ae5a: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002ae5e: e8 f2 ee ff ff call c0029d55 <process\_close\_file>

c002ae63: c7 04 24 20 ba 03 c0 mov DWORD PTR [esp],0xc003ba20

c002ae6a: e8 64 7a ff ff call c00228d3 <lock\_release>

c002ae6f: 83 c4 1c add esp,0x1c

c002ae72: c3 ret

c002ae73 <check\_write\_permission>:

c002ae73: 83 ec 0c sub esp,0xc

c002ae76: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002ae7a: 80 78 08 00 cmp BYTE PTR [eax+0x8],0x0

c002ae7e: 75 0a jne c002ae8a <check\_write\_permission+

0x17>

c002ae80: 83 ec 0c sub esp,0xc

c002ae83: 6a ff push 0xffffffff

c002ae85: e8 ac fc ff ff call c002ab36 <exit>

c002ae8a: 83 c4 0c add esp,0xc

c002ae8d: c3 ret

c002ae8e <check\_valid\_ptr>:

c002ae8e: 56 push esi

c002ae8f: 53 push ebx

c002ae90: 83 ec 04 sub esp,0x4

c002ae93: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002ae97: 8d 86 00 80 fb f7 lea eax,[esi-0x8048000]

c002ae9d: 3d ff 7f fb b7 cmp eax,0xb7fb7fff

c002aea2: 76 0a jbe c002aeae <check\_valid\_ptr+0x20>

c002aea4: 83 ec 0c sub esp,0xc

c002aea7: 6a ff push 0xffffffff

c002aea9: e8 88 fc ff ff call c002ab36 <exit>

c002aeae: 83 ec 0c sub esp,0xc

c002aeb1: 56 push esi

c002aeb2: e8 70 21 00 00 call c002d027 <get\_spte>

c002aeb7: 89 c3 mov ebx,eax

c002aeb9: 83 c4 10 add esp,0x10

c002aebc: 85 c0 test eax,eax

c002aebe: 74 12 je c002aed2 <check\_valid\_ptr+0x44>

c002aec0: 83 ec 0c sub esp,0xc

c002aec3: 50 push eax

c002aec4: e8 cb 22 00 00 call c002d194 <load\_page>

c002aec9: 0f b6 43 09 movzx eax,BYTE PTR [ebx+0x9]

c002aecd: 83 c4 10 add esp,0x10

c002aed0: eb 17 jmp c002aee9 <check\_valid\_ptr+0x5b>

c002aed2: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002aed6: 83 e8 20 sub eax,0x20

c002aed9: 39 c6 cmp esi,eax

c002aedb: 72 10 jb c002aeed <check\_valid\_ptr+0x5f>

c002aedd: 83 ec 0c sub esp,0xc

c002aee0: 56 push esi

c002aee1: e8 14 24 00 00 call c002d2fa <grow\_stack>

c002aee6: 83 c4 10 add esp,0x10

c002aee9: 84 c0 test al,al

c002aeeb: 75 0a jne c002aef7 <check\_valid\_ptr+0x69>

c002aeed: 83 ec 0c sub esp,0xc

c002aef0: 6a ff push 0xffffffff

c002aef2: e8 3f fc ff ff call c002ab36 <exit>

c002aef7: 89 d8 mov eax,ebx

c002aef9: 83 c4 04 add esp,0x4

c002aefc: 5b pop ebx

c002aefd: 5e pop esi

c002aefe: c3 ret

c002aeff <add\_child\_process>:

c002aeff: 53 push ebx

c002af00: 83 ec 14 sub esp,0x14

c002af03: 6a 40 push 0x40

c002af05: e8 ea 81 ff ff call c00230f4 <malloc>

c002af0a: 89 c3 mov ebx,eax

c002af0c: 83 c4 10 add esp,0x10

c002af0f: 85 c0 test eax,eax

c002af11: 74 49 je c002af5c <add\_child\_process+0x5d>

c002af13: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002af17: 89 03 mov DWORD PTR [ebx],eax

c002af19: c7 43 04 00 00 00 00 mov DWORD PTR [ebx+0x4],0x0

c002af20: c6 43 08 00 mov BYTE PTR [ebx+0x8],0x0

c002af24: c6 43 09 00 mov BYTE PTR [ebx+0x9],0x0

c002af28: 83 ec 08 sub esp,0x8

c002af2b: 6a 00 push 0x0

c002af2d: 8d 43 10 lea eax,[ebx+0x10]

c002af30: 50 push eax

c002af31: e8 8b 75 ff ff call c00224c1 <sema\_init>

c002af36: 83 c4 08 add esp,0x8

c002af39: 6a 00 push 0x0

c002af3b: 8d 43 24 lea eax,[ebx+0x24]

c002af3e: 50 push eax

c002af3f: e8 7d 75 ff ff call c00224c1 <sema\_init>

c002af44: e8 a2 5c ff ff call c0020beb <thread\_current>

c002af49: 83 c4 08 add esp,0x8

c002af4c: 8d 53 38 lea edx,[ebx+0x38]

c002af4f: 52 push edx

c002af50: 83 c0 5c add eax,0x5c

c002af53: 50 push eax

c002af54: e8 2f cf ff ff call c0027e88 <list\_push\_back>

c002af59: 83 c4 10 add esp,0x10

c002af5c: 89 d8 mov eax,ebx

c002af5e: 83 c4 08 add esp,0x8

c002af61: 5b pop ebx

c002af62: c3 ret

c002af63 <get\_child\_process>:

c002af63: 57 push edi

c002af64: 56 push esi

c002af65: 53 push ebx

c002af66: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c002af6a: e8 7c 5c ff ff call c0020beb <thread\_current>

c002af6f: 8d 70 5c lea esi,[eax+0x5c]

c002af72: 83 ec 0c sub esp,0xc

c002af75: 56 push esi

c002af76: e8 ac ca ff ff call c0027a27 <list\_begin>

c002af7b: 89 c3 mov ebx,eax

c002af7d: 83 c4 10 add esp,0x10

c002af80: eb 18 jmp c002af9a <get\_child\_process+0x37>

c002af82: 39 7b c8 cmp DWORD PTR [ebx-0x38],edi

c002af85: 75 05 jne c002af8c <get\_child\_process+0x29>

c002af87: 8d 43 c8 lea eax,[ebx-0x38]

c002af8a: eb 23 jmp c002afaf <get\_child\_process+0x4c>

c002af8c: 83 ec 0c sub esp,0xc

c002af8f: 53 push ebx

c002af90: e8 c2 ca ff ff call c0027a57 <list\_next>

c002af95: 89 c3 mov ebx,eax

c002af97: 83 c4 10 add esp,0x10

c002af9a: 83 ec 0c sub esp,0xc

c002af9d: 56 push esi

c002af9e: e8 fa ca ff ff call c0027a9d <list\_end>

c002afa3: 83 c4 10 add esp,0x10

c002afa6: 39 c3 cmp ebx,eax

c002afa8: 75 d8 jne c002af82 <get\_child\_process+0x1f>

c002afaa: b8 00 00 00 00 mov eax,0x0

c002afaf: 5b pop ebx

c002afb0: 5e pop esi

c002afb1: 5f pop edi

c002afb2: c3 ret

c002afb3 <remove\_child\_process>:

c002afb3: 53 push ebx

c002afb4: 83 ec 14 sub esp,0x14

c002afb7: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c002afbb: 8d 43 38 lea eax,[ebx+0x38]

c002afbe: 50 push eax

c002afbf: e8 e1 ce ff ff call c0027ea5 <list\_remove>

c002afc4: 89 1c 24 mov DWORD PTR [esp],ebx

c002afc7: e8 b9 82 ff ff call c0023285 <free>

c002afcc: 83 c4 18 add esp,0x18

c002afcf: 5b pop ebx

c002afd0: c3 ret

c002afd1 <exec>:

c002afd1: 56 push esi

c002afd2: 53 push ebx

c002afd3: 83 ec 10 sub esp,0x10

c002afd6: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002afda: e8 03 e5 ff ff call c00294e2 <process\_execute>

c002afdf: 89 c3 mov ebx,eax

c002afe1: 89 04 24 mov DWORD PTR [esp],eax

c002afe4: e8 7a ff ff ff call c002af63 <get\_child\_process>

c002afe9: 83 c4 10 add esp,0x10

c002afec: 85 c0 test eax,eax

c002afee: 74 30 je c002b020 <exec+0x4f>

c002aff0: 89 c6 mov esi,eax

c002aff2: 83 78 04 00 cmp DWORD PTR [eax+0x4],0x0

c002aff6: 75 0f jne c002b007 <exec+0x36>

c002aff8: 83 ec 0c sub esp,0xc

c002affb: 8d 40 10 lea eax,[eax+0x10]

c002affe: 50 push eax

c002afff: e8 fc 74 ff ff call c0022500 <sema\_down>

c002b004: 83 c4 10 add esp,0x10

c002b007: 83 7e 04 02 cmp DWORD PTR [esi+0x4],0x2

c002b00b: 75 1a jne c002b027 <exec+0x56>

c002b00d: 83 ec 0c sub esp,0xc

c002b010: 56 push esi

c002b011: e8 9d ff ff ff call c002afb3 <remove\_child\_process>

c002b016: 83 c4 10 add esp,0x10

c002b019: b8 ff ff ff ff mov eax,0xffffffff

c002b01e: eb 09 jmp c002b029 <exec+0x58>

c002b020: b8 ff ff ff ff mov eax,0xffffffff

c002b025: eb 02 jmp c002b029 <exec+0x58>

c002b027: 89 d8 mov eax,ebx

c002b029: 83 c4 04 add esp,0x4

c002b02c: 5b pop ebx

c002b02d: 5e pop esi

c002b02e: c3 ret

c002b02f <remove\_child\_processes>:

c002b02f: 55 push ebp

c002b030: 57 push edi

c002b031: 56 push esi

c002b032: 53 push ebx

c002b033: 83 ec 0c sub esp,0xc

c002b036: e8 b0 5b ff ff call c0020beb <thread\_current>

c002b03b: 8d 78 5c lea edi,[eax+0x5c]

c002b03e: 83 ec 0c sub esp,0xc

c002b041: 57 push edi

c002b042: e8 e0 c9 ff ff call c0027a27 <list\_begin>

c002b047: 89 c3 mov ebx,eax

c002b049: 83 c4 10 add esp,0x10

c002b04c: eb 23 jmp c002b071 <remove\_child\_processes+

0x42>

c002b04e: 83 ec 0c sub esp,0xc

c002b051: 53 push ebx

c002b052: e8 00 ca ff ff call c0027a57 <list\_next>

c002b057: 89 c6 mov esi,eax

c002b059: 8d 6b c8 lea ebp,[ebx-0x38]

c002b05c: 89 1c 24 mov DWORD PTR [esp],ebx

c002b05f: e8 41 ce ff ff call c0027ea5 <list\_remove>

c002b064: 89 2c 24 mov DWORD PTR [esp],ebp

c002b067: e8 19 82 ff ff call c0023285 <free>

c002b06c: 83 c4 10 add esp,0x10

c002b06f: 89 f3 mov ebx,esi

c002b071: 83 ec 0c sub esp,0xc

c002b074: 57 push edi

c002b075: e8 23 ca ff ff call c0027a9d <list\_end>

c002b07a: 83 c4 10 add esp,0x10

c002b07d: 39 c3 cmp ebx,eax

c002b07f: 75 cd jne c002b04e <remove\_child\_processes+

0x1f>

c002b081: 83 c4 0c add esp,0xc

c002b084: 5b pop ebx

c002b085: 5e pop esi

c002b086: 5f pop edi

c002b087: 5d pop ebp

c002b088: c3 ret

c002b089 <get\_arg>:

c002b089: 55 push ebp

c002b08a: 57 push edi

c002b08b: 56 push esi

c002b08c: 53 push ebx

c002b08d: 83 ec 1c sub esp,0x1c

c002b090: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

c002b094: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

c002b098: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

c002b09c: 85 c0 test eax,eax

c002b09e: 7e 2e jle c002b0ce <get\_arg+0x45>

c002b0a0: 83 c0 01 add eax,0x1

c002b0a3: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c002b0a7: bb 01 00 00 00 mov ebx,0x1

c002b0ac: 8b 47 48 mov eax,DWORD PTR [edi+0x48]

c002b0af: 8d 34 98 lea esi,[eax+ebx\*4]

c002b0b2: 83 ec 08 sub esp,0x8

c002b0b5: 50 push eax

c002b0b6: 56 push esi

c002b0b7: e8 d2 fd ff ff call c002ae8e <check\_valid\_ptr>

c002b0bc: 8b 06 mov eax,DWORD PTR [esi]

c002b0be: 89 44 9d fc mov DWORD PTR [ebp+ebx\*4-0x4],eax

c002b0c2: 83 c3 01 add ebx,0x1

c002b0c5: 83 c4 10 add esp,0x10

c002b0c8: 3b 5c 24 0c cmp ebx,DWORD PTR [esp+0xc]

c002b0cc: 75 de jne c002b0ac <get\_arg+0x23>

c002b0ce: 83 c4 1c add esp,0x1c

c002b0d1: 5b pop ebx

c002b0d2: 5e pop esi

c002b0d3: 5f pop edi

c002b0d4: 5d pop ebp

c002b0d5: c3 ret

c002b0d6 <check\_valid\_buffer>:

c002b0d6: 55 push ebp

c002b0d7: 57 push edi

c002b0d8: 56 push esi

c002b0d9: 53 push ebx

c002b0da: 83 ec 0c sub esp,0xc

c002b0dd: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

c002b0e1: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

c002b0e5: 8b 7c 24 28 mov edi,DWORD PTR [esp+0x28]

c002b0e9: 0f b6 6c 24 2c movzx ebp,BYTE PTR [esp+0x2c]

c002b0ee: 85 f6 test esi,esi

c002b0f0: 74 30 je c002b122 <check\_valid\_buffer+0x4c

>

c002b0f2: 01 de add esi,ebx

c002b0f4: 83 ec 08 sub esp,0x8

c002b0f7: 57 push edi

c002b0f8: 53 push ebx

c002b0f9: e8 90 fd ff ff call c002ae8e <check\_valid\_ptr>

c002b0fe: 83 c4 10 add esp,0x10

c002b101: 85 c0 test eax,eax

c002b103: 74 16 je c002b11b <check\_valid\_buffer+0x45

>

c002b105: 89 ea mov edx,ebp

c002b107: 84 d2 test dl,dl

c002b109: 74 10 je c002b11b <check\_valid\_buffer+0x45

>

c002b10b: 80 78 08 00 cmp BYTE PTR [eax+0x8],0x0

c002b10f: 75 0a jne c002b11b <check\_valid\_buffer+0x45

>

c002b111: 83 ec 0c sub esp,0xc

c002b114: 6a ff push 0xffffffff

c002b116: e8 1b fa ff ff call c002ab36 <exit>

c002b11b: 83 c3 01 add ebx,0x1

c002b11e: 39 de cmp esi,ebx

c002b120: 75 d2 jne c002b0f4 <check\_valid\_buffer+0x1e

>

c002b122: 83 c4 0c add esp,0xc

c002b125: 5b pop ebx

c002b126: 5e pop esi

c002b127: 5f pop edi

c002b128: 5d pop ebp

c002b129: c3 ret

c002b12a <check\_valid\_string>:

c002b12a: 56 push esi

c002b12b: 53 push ebx

c002b12c: 83 ec 0c sub esp,0xc

c002b12f: 8b 5c 24 18 mov ebx,DWORD PTR [esp+0x18]

c002b133: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c002b137: 56 push esi

c002b138: 53 push ebx

c002b139: e8 50 fd ff ff call c002ae8e <check\_valid\_ptr>

c002b13e: 83 c4 10 add esp,0x10

c002b141: 80 3b 00 cmp BYTE PTR [ebx],0x0

c002b144: 74 15 je c002b15b <check\_valid\_string+0x31

>

c002b146: 83 c3 01 add ebx,0x1

c002b149: 83 ec 08 sub esp,0x8

c002b14c: 56 push esi

c002b14d: 53 push ebx

c002b14e: e8 3b fd ff ff call c002ae8e <check\_valid\_ptr>

c002b153: 83 c4 10 add esp,0x10

c002b156: 80 3b 00 cmp BYTE PTR [ebx],0x0

c002b159: 75 eb jne c002b146 <check\_valid\_string+0x1c

>

c002b15b: 83 c4 04 add esp,0x4

c002b15e: 5b pop ebx

c002b15f: 5e pop esi

c002b160: c3 ret

c002b161 <unpin\_ptr>:

c002b161: 83 ec 18 sub esp,0x18

c002b164: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002b168: e8 ba 1e 00 00 call c002d027 <get\_spte>

c002b16d: 83 c4 10 add esp,0x10

c002b170: 85 c0 test eax,eax

c002b172: 74 04 je c002b178 <unpin\_ptr+0x17>

c002b174: c6 40 0a 00 mov BYTE PTR [eax+0xa],0x0

c002b178: 83 c4 0c add esp,0xc

c002b17b: c3 ret

c002b17c <unpin\_string>:

c002b17c: 53 push ebx

c002b17d: 83 ec 14 sub esp,0x14

c002b180: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c002b184: 53 push ebx

c002b185: e8 d7 ff ff ff call c002b161 <unpin\_ptr>

c002b18a: 83 c4 10 add esp,0x10

c002b18d: 80 3b 00 cmp BYTE PTR [ebx],0x0

c002b190: 74 14 je c002b1a6 <unpin\_string+0x2a>

c002b192: 83 c3 01 add ebx,0x1

c002b195: 83 ec 0c sub esp,0xc

c002b198: 53 push ebx

c002b199: e8 c3 ff ff ff call c002b161 <unpin\_ptr>

c002b19e: 83 c4 10 add esp,0x10

c002b1a1: 80 3b 00 cmp BYTE PTR [ebx],0x0

c002b1a4: 75 ec jne c002b192 <unpin\_string+0x16>

c002b1a6: 83 c4 08 add esp,0x8

c002b1a9: 5b pop ebx

c002b1aa: c3 ret

c002b1ab <unpin\_buffer>:

c002b1ab: 56 push esi

c002b1ac: 53 push ebx

c002b1ad: 83 ec 04 sub esp,0x4

c002b1b0: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002b1b4: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

c002b1b8: 85 f6 test esi,esi

c002b1ba: 74 15 je c002b1d1 <unpin\_buffer+0x26>

c002b1bc: 01 de add esi,ebx

c002b1be: 83 ec 0c sub esp,0xc

c002b1c1: 53 push ebx

c002b1c2: e8 9a ff ff ff call c002b161 <unpin\_ptr>

c002b1c7: 83 c3 01 add ebx,0x1

c002b1ca: 83 c4 10 add esp,0x10

c002b1cd: 39 de cmp esi,ebx

c002b1cf: 75 ed jne c002b1be <unpin\_buffer+0x13>

c002b1d1: 83 c4 04 add esp,0x4

c002b1d4: 5b pop ebx

c002b1d5: 5e pop esi

c002b1d6: c3 ret

c002b1d7 <syscall\_handler>:

c002b1d7: 53 push ebx

c002b1d8: 83 ec 20 sub esp,0x20

c002b1db: 8b 5c 24 28 mov ebx,DWORD PTR [esp+0x28]

c002b1df: 8b 43 48 mov eax,DWORD PTR [ebx+0x48]

c002b1e2: 50 push eax

c002b1e3: 50 push eax

c002b1e4: e8 a5 fc ff ff call c002ae8e <check\_valid\_ptr>

c002b1e9: 83 c4 10 add esp,0x10

c002b1ec: 8b 43 48 mov eax,DWORD PTR [ebx+0x48]

c002b1ef: 83 38 0e cmp DWORD PTR [eax],0xe

c002b1f2: 0f 87 d4 02 00 00 ja c002b4cc <syscall\_handler+0x2f5>

c002b1f8: 8b 00 mov eax,DWORD PTR [eax]

c002b1fa: ff 24 85 e4 ea 02 c0 jmp DWORD PTR [eax\*4-0x3ffd151c]

c002b201: e8 ee a3 ff ff call c00255f4 <shutdown\_power\_off>

c002b206: 83 ec 04 sub esp,0x4

c002b209: 6a 01 push 0x1

c002b20b: 8d 44 24 0c lea eax,[esp+0xc]

c002b20f: 50 push eax

c002b210: 53 push ebx

c002b211: e8 73 fe ff ff call c002b089 <get\_arg>

c002b216: 83 c4 04 add esp,0x4

c002b219: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b21d: e8 14 f9 ff ff call c002ab36 <exit>

c002b222: 83 ec 04 sub esp,0x4

c002b225: 6a 01 push 0x1

c002b227: 8d 44 24 0c lea eax,[esp+0xc]

c002b22b: 50 push eax

c002b22c: 53 push ebx

c002b22d: e8 57 fe ff ff call c002b089 <get\_arg>

c002b232: 83 c4 08 add esp,0x8

c002b235: ff 73 48 push DWORD PTR [ebx+0x48]

c002b238: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b23c: e8 e9 fe ff ff call c002b12a <check\_valid\_string>

c002b241: 83 c4 04 add esp,0x4

c002b244: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b248: e8 84 fd ff ff call c002afd1 <exec>

c002b24d: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b250: 83 c4 04 add esp,0x4

c002b253: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b257: e8 20 ff ff ff call c002b17c <unpin\_string>

c002b25c: 83 c4 10 add esp,0x10

c002b25f: e9 68 02 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b264: 83 ec 04 sub esp,0x4

c002b267: 6a 01 push 0x1

c002b269: 8d 44 24 0c lea eax,[esp+0xc]

c002b26d: 50 push eax

c002b26e: 53 push ebx

c002b26f: e8 15 fe ff ff call c002b089 <get\_arg>

c002b274: 83 c4 04 add esp,0x4

c002b277: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b27b: e8 27 e3 ff ff call c00295a7 <process\_wait>

c002b280: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b283: 83 c4 10 add esp,0x10

c002b286: e9 41 02 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b28b: 83 ec 04 sub esp,0x4

c002b28e: 6a 02 push 0x2

c002b290: 8d 44 24 0c lea eax,[esp+0xc]

c002b294: 50 push eax

c002b295: 53 push ebx

c002b296: e8 ee fd ff ff call c002b089 <get\_arg>

c002b29b: 83 c4 08 add esp,0x8

c002b29e: ff 73 48 push DWORD PTR [ebx+0x48]

c002b2a1: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b2a5: e8 80 fe ff ff call c002b12a <check\_valid\_string>

c002b2aa: 83 c4 08 add esp,0x8

c002b2ad: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b2b1: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b2b5: e8 cf f8 ff ff call c002ab89 <create>

c002b2ba: 0f b6 c0 movzx eax,al

c002b2bd: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b2c0: 83 c4 04 add esp,0x4

c002b2c3: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b2c7: e8 b0 fe ff ff call c002b17c <unpin\_string>

c002b2cc: 83 c4 10 add esp,0x10

c002b2cf: e9 f8 01 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b2d4: 83 ec 04 sub esp,0x4

c002b2d7: 6a 01 push 0x1

c002b2d9: 8d 44 24 0c lea eax,[esp+0xc]

c002b2dd: 50 push eax

c002b2de: 53 push ebx

c002b2df: e8 a5 fd ff ff call c002b089 <get\_arg>

c002b2e4: 83 c4 08 add esp,0x8

c002b2e7: ff 73 48 push DWORD PTR [ebx+0x48]

c002b2ea: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b2ee: e8 37 fe ff ff call c002b12a <check\_valid\_string>

c002b2f3: 83 c4 04 add esp,0x4

c002b2f6: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b2fa: e8 bd f8 ff ff call c002abbc <remove>

c002b2ff: 0f b6 c0 movzx eax,al

c002b302: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b305: 83 c4 10 add esp,0x10

c002b308: e9 bf 01 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b30d: 83 ec 04 sub esp,0x4

c002b310: 6a 01 push 0x1

c002b312: 8d 44 24 0c lea eax,[esp+0xc]

c002b316: 50 push eax

c002b317: 53 push ebx

c002b318: e8 6c fd ff ff call c002b089 <get\_arg>

c002b31d: 83 c4 08 add esp,0x8

c002b320: ff 73 48 push DWORD PTR [ebx+0x48]

c002b323: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b327: e8 fe fd ff ff call c002b12a <check\_valid\_string>

c002b32c: 83 c4 04 add esp,0x4

c002b32f: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b333: e8 b3 f8 ff ff call c002abeb <open>

c002b338: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b33b: 83 c4 04 add esp,0x4

c002b33e: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b342: e8 35 fe ff ff call c002b17c <unpin\_string>

c002b347: 83 c4 10 add esp,0x10

c002b34a: e9 7d 01 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b34f: 83 ec 04 sub esp,0x4

c002b352: 6a 01 push 0x1

c002b354: 8d 44 24 0c lea eax,[esp+0xc]

c002b358: 50 push eax

c002b359: 53 push ebx

c002b35a: e8 2a fd ff ff call c002b089 <get\_arg>

c002b35f: 83 c4 04 add esp,0x4

c002b362: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b366: e8 d9 f8 ff ff call c002ac44 <filesize>

c002b36b: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b36e: 83 c4 10 add esp,0x10

c002b371: e9 56 01 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b376: 83 ec 04 sub esp,0x4

c002b379: 6a 03 push 0x3

c002b37b: 8d 44 24 0c lea eax,[esp+0xc]

c002b37f: 50 push eax

c002b380: 53 push ebx

c002b381: e8 03 fd ff ff call c002b089 <get\_arg>

c002b386: 6a 01 push 0x1

c002b388: ff 73 48 push DWORD PTR [ebx+0x48]

c002b38b: ff 74 24 24 push DWORD PTR [esp+0x24]

c002b38f: ff 74 24 24 push DWORD PTR [esp+0x24]

c002b393: e8 3e fd ff ff call c002b0d6 <check\_valid\_buffer>

c002b398: 83 c4 1c add esp,0x1c

c002b39b: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b39f: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b3a3: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b3a7: e8 f1 f8 ff ff call c002ac9d <read>

c002b3ac: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b3af: 83 c4 08 add esp,0x8

c002b3b2: ff 74 24 14 push DWORD PTR [esp+0x14]

c002b3b6: ff 74 24 14 push DWORD PTR [esp+0x14]

c002b3ba: e8 ec fd ff ff call c002b1ab <unpin\_buffer>

c002b3bf: 83 c4 10 add esp,0x10

c002b3c2: e9 05 01 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b3c7: 83 ec 04 sub esp,0x4

c002b3ca: 6a 03 push 0x3

c002b3cc: 8d 44 24 0c lea eax,[esp+0xc]

c002b3d0: 50 push eax

c002b3d1: 53 push ebx

c002b3d2: e8 b2 fc ff ff call c002b089 <get\_arg>

c002b3d7: 6a 00 push 0x0

c002b3d9: ff 73 48 push DWORD PTR [ebx+0x48]

c002b3dc: ff 74 24 24 push DWORD PTR [esp+0x24]

c002b3e0: ff 74 24 24 push DWORD PTR [esp+0x24]

c002b3e4: e8 ed fc ff ff call c002b0d6 <check\_valid\_buffer>

c002b3e9: 83 c4 1c add esp,0x1c

c002b3ec: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b3f0: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b3f4: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b3f8: e8 22 f9 ff ff call c002ad1f <write>

c002b3fd: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b400: 83 c4 08 add esp,0x8

c002b403: ff 74 24 14 push DWORD PTR [esp+0x14]

c002b407: ff 74 24 14 push DWORD PTR [esp+0x14]

c002b40b: e8 9b fd ff ff call c002b1ab <unpin\_buffer>

c002b410: 83 c4 10 add esp,0x10

c002b413: e9 b4 00 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b418: 83 ec 04 sub esp,0x4

c002b41b: 6a 02 push 0x2

c002b41d: 8d 44 24 0c lea eax,[esp+0xc]

c002b421: 50 push eax

c002b422: 53 push ebx

c002b423: e8 61 fc ff ff call c002b089 <get\_arg>

c002b428: 83 c4 08 add esp,0x8

c002b42b: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b42f: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b433: e8 67 f9 ff ff call c002ad9f <seek>

c002b438: 83 c4 10 add esp,0x10

c002b43b: e9 8c 00 00 00 jmp c002b4cc <syscall\_handler+0x2f5>

c002b440: 83 ec 04 sub esp,0x4

c002b443: 6a 01 push 0x1

c002b445: 8d 44 24 0c lea eax,[esp+0xc]

c002b449: 50 push eax

c002b44a: 53 push ebx

c002b44b: e8 39 fc ff ff call c002b089 <get\_arg>

c002b450: 83 c4 04 add esp,0x4

c002b453: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b457: e8 95 f9 ff ff call c002adf1 <tell>

c002b45c: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b45f: 83 c4 10 add esp,0x10

c002b462: eb 68 jmp c002b4cc <syscall\_handler+0x2f5>

c002b464: 83 ec 04 sub esp,0x4

c002b467: 6a 01 push 0x1

c002b469: 8d 44 24 0c lea eax,[esp+0xc]

c002b46d: 50 push eax

c002b46e: 53 push ebx

c002b46f: e8 15 fc ff ff call c002b089 <get\_arg>

c002b474: 83 c4 04 add esp,0x4

c002b477: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b47b: e8 ca f9 ff ff call c002ae4a <close>

c002b480: 83 c4 10 add esp,0x10

c002b483: eb 47 jmp c002b4cc <syscall\_handler+0x2f5>

c002b485: 83 ec 04 sub esp,0x4

c002b488: 6a 02 push 0x2

c002b48a: 8d 44 24 0c lea eax,[esp+0xc]

c002b48e: 50 push eax

c002b48f: 53 push ebx

c002b490: e8 f4 fb ff ff call c002b089 <get\_arg>

c002b495: 83 c4 08 add esp,0x8

c002b498: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b49c: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b4a0: e8 66 f5 ff ff call c002aa0b <mmap>

c002b4a5: 89 43 1c mov DWORD PTR [ebx+0x1c],eax

c002b4a8: 83 c4 10 add esp,0x10

c002b4ab: eb 1f jmp c002b4cc <syscall\_handler+0x2f5>

c002b4ad: 83 ec 04 sub esp,0x4

c002b4b0: 6a 01 push 0x1

c002b4b2: 8d 44 24 0c lea eax,[esp+0xc]

c002b4b6: 50 push eax

c002b4b7: 53 push ebx

c002b4b8: e8 cc fb ff ff call c002b089 <get\_arg>

c002b4bd: 83 c4 04 add esp,0x4

c002b4c0: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b4c4: e8 60 e9 ff ff call c0029e29 <process\_remove\_mmap>

c002b4c9: 83 c4 10 add esp,0x10

c002b4cc: 83 ec 0c sub esp,0xc

c002b4cf: ff 73 48 push DWORD PTR [ebx+0x48]

c002b4d2: e8 8a fc ff ff call c002b161 <unpin\_ptr>

c002b4d7: 83 c4 28 add esp,0x28

c002b4da: 5b pop ebx

c002b4db: c3 ret

c002b4dc <gdt\_init>:

c002b4dc: 83 ec 1c sub esp,0x1c

c002b4df: c7 05 a0 b7 03 c0 00 mov DWORD PTR ds:0xc003b7a0,0x0

c002b4e6: 00 00 00

c002b4e9: c7 05 a4 b7 03 c0 00 mov DWORD PTR ds:0xc003b7a4,0x0

c002b4f0: 00 00 00

c002b4f3: c7 05 a8 b7 03 c0 ff mov DWORD PTR ds:0xc003b7a8,0xffff

c002b4fa: ff 00 00

c002b4fd: c7 05 ac b7 03 c0 00 mov DWORD PTR ds:0xc003b7ac,0xcf9a00

c002b504: 9a cf 00

c002b507: c7 05 b0 b7 03 c0 ff mov DWORD PTR ds:0xc003b7b0,0xffff

c002b50e: ff 00 00

c002b511: c7 05 b4 b7 03 c0 00 mov DWORD PTR ds:0xc003b7b4,0xcf9200

c002b518: 92 cf 00

c002b51b: c7 05 b8 b7 03 c0 ff mov DWORD PTR ds:0xc003b7b8,0xffff

c002b522: ff 00 00

c002b525: c7 05 bc b7 03 c0 00 mov DWORD PTR ds:0xc003b7bc,0xcffa00

c002b52c: fa cf 00

c002b52f: c7 05 c0 b7 03 c0 ff mov DWORD PTR ds:0xc003b7c0,0xffff

c002b536: ff 00 00

c002b539: c7 05 c4 b7 03 c0 00 mov DWORD PTR ds:0xc003b7c4,0xcff200

c002b540: f2 cf 00

c002b543: e8 56 00 00 00 call c002b59e <tss\_get>

c002b548: 89 c2 mov edx,eax

c002b54a: c1 ea 10 shr edx,0x10

c002b54d: 0f b6 ca movzx ecx,dl

c002b550: 89 c2 mov edx,eax

c002b552: 81 e2 00 00 00 ff and edx,0xff000000

c002b558: 81 ca 00 89 40 00 or edx,0x408900

c002b55e: 09 ca or edx,ecx

c002b560: c1 e0 10 shl eax,0x10

c002b563: 83 c8 67 or eax,0x67

c002b566: a3 c8 b7 03 c0 mov ds:0xc003b7c8,eax

c002b56b: 89 15 cc b7 03 c0 mov DWORD PTR ds:0xc003b7cc,edx

c002b571: b8 a0 b7 03 c0 mov eax,0xc003b7a0

c002b576: ba 00 00 00 00 mov edx,0x0

c002b57b: 0f a4 c2 10 shld edx,eax,0x10

c002b57f: c1 e0 10 shl eax,0x10

c002b582: 83 c8 2f or eax,0x2f

c002b585: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002b589: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

c002b58d: 0f 01 54 24 08 lgdtd [esp+0x8]

c002b592: b8 28 00 00 00 mov eax,0x28

c002b597: 0f 00 d8 ltr ax

c002b59a: 83 c4 1c add esp,0x1c

c002b59d: c3 ret

c002b59e <tss\_get>:

c002b59e: a1 d0 b7 03 c0 mov eax,ds:0xc003b7d0

c002b5a3: 85 c0 test eax,eax

c002b5a5: 75 1e jne c002b5c5 <tss\_get+0x27>

c002b5a7: 83 ec 18 sub esp,0x18

c002b5aa: 68 73 11 03 c0 push 0xc0031173

c002b5af: 68 83 ed 02 c0 push 0xc002ed83

c002b5b4: 68 2c eb 02 c0 push 0xc002eb2c

c002b5b9: 6a 63 push 0x63

c002b5bb: 68 7f 11 03 c0 push 0xc003117f

c002b5c0: e8 78 c3 ff ff call c002793d <debug\_panic>

c002b5c5: f3 c3 repz ret

c002b5c7 <tss\_update>:

c002b5c7: 53 push ebx

c002b5c8: 83 ec 08 sub esp,0x8

c002b5cb: 8b 1d d0 b7 03 c0 mov ebx,DWORD PTR ds:0xc003b7d0

c002b5d1: 85 db test ebx,ebx

c002b5d3: 75 1e jne c002b5f3 <tss\_update+0x2c>

c002b5d5: 83 ec 0c sub esp,0xc

c002b5d8: 68 73 11 03 c0 push 0xc0031173

c002b5dd: 68 83 ed 02 c0 push 0xc002ed83

c002b5e2: 68 20 eb 02 c0 push 0xc002eb20

c002b5e7: 6a 6c push 0x6c

c002b5e9: 68 7f 11 03 c0 push 0xc003117f

c002b5ee: e8 4a c3 ff ff call c002793d <debug\_panic>

c002b5f3: e8 f3 55 ff ff call c0020beb <thread\_current>

c002b5f8: 05 00 10 00 00 add eax,0x1000

c002b5fd: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002b600: 83 c4 08 add esp,0x8

c002b603: 5b pop ebx

c002b604: c3 ret

c002b605 <tss\_init>:

c002b605: 83 ec 18 sub esp,0x18

c002b608: 6a 03 push 0x3

c002b60a: e8 7c 77 ff ff call c0022d8b <palloc\_get\_page>

c002b60f: a3 d0 b7 03 c0 mov ds:0xc003b7d0,eax

c002b614: 66 c7 40 08 10 00 mov WORD PTR [eax+0x8],0x10

c002b61a: 66 c7 40 66 ff df mov WORD PTR [eax+0x66],0xdfff

c002b620: e8 a2 ff ff ff call c002b5c7 <tss\_update>

c002b625: 83 c4 1c add esp,0x1c

c002b628: c3 ret

c002b629 <filesys\_init>:

c002b629: 53 push ebx

c002b62a: 83 ec 14 sub esp,0x14

c002b62d: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c002b631: 6a 01 push 0x1

c002b633: e8 83 8a ff ff call c00240bb <block\_get\_role>

c002b638: a3 48 ba 03 c0 mov ds:0xc003ba48,eax

c002b63d: 83 c4 10 add esp,0x10

c002b640: 85 c0 test eax,eax

c002b642: 75 16 jne c002b65a <filesys\_init+0x31>

c002b644: 68 94 11 03 c0 push 0xc0031194

c002b649: 68 40 eb 02 c0 push 0xc002eb40

c002b64e: 6a 16 push 0x16

c002b650: 68 ef 11 03 c0 push 0xc00311ef

c002b655: e8 e3 c2 ff ff call c002793d <debug\_panic>

c002b65a: e8 06 0b 00 00 call c002c165 <inode\_init>

c002b65f: e8 89 01 00 00 call c002b7ed <free\_map\_init>

c002b664: 84 db test bl,bl

c002b666: 74 50 je c002b6b8 <filesys\_init+0x8f>

c002b668: 83 ec 0c sub esp,0xc

c002b66b: 68 07 12 03 c0 push 0xc0031207

c002b670: e8 50 a6 ff ff call c0025cc5 <printf>

c002b675: e8 30 03 00 00 call c002b9aa <free\_map\_create>

c002b67a: 83 c4 08 add esp,0x8

c002b67d: 6a 10 push 0x10

c002b67f: 6a 01 push 0x1

c002b681: e8 23 07 00 00 call c002bda9 <dir\_create>

c002b686: 83 c4 10 add esp,0x10

c002b689: 84 c0 test al,al

c002b68b: 75 16 jne c002b6a3 <filesys\_init+0x7a>

c002b68d: 68 d0 11 03 c0 push 0xc00311d0

c002b692: 68 34 eb 02 c0 push 0xc002eb34

c002b697: 6a 65 push 0x65

c002b699: 68 ef 11 03 c0 push 0xc00311ef

c002b69e: e8 9a c2 ff ff call c002793d <debug\_panic>

c002b6a3: e8 f0 02 00 00 call c002b998 <free\_map\_close>

c002b6a8: 83 ec 0c sub esp,0xc

c002b6ab: 68 71 f9 02 c0 push 0xc002f971

c002b6b0: e8 9b dd ff ff call c0029450 <puts>

c002b6b5: 83 c4 10 add esp,0x10

c002b6b8: e8 77 02 00 00 call c002b934 <free\_map\_open>

c002b6bd: 83 c4 08 add esp,0x8

c002b6c0: 5b pop ebx

c002b6c1: c3 ret

c002b6c2 <filesys\_done>:

c002b6c2: 83 ec 0c sub esp,0xc

c002b6c5: e8 ce 02 00 00 call c002b998 <free\_map\_close>

c002b6ca: 83 c4 0c add esp,0xc

c002b6cd: c3 ret

c002b6ce <filesys\_create>:

c002b6ce: 56 push esi

c002b6cf: 53 push ebx

c002b6d0: 83 ec 14 sub esp,0x14

c002b6d3: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

c002b6da: 00

c002b6db: e8 2d 07 00 00 call c002be0d <dir\_open\_root>

c002b6e0: 89 c3 mov ebx,eax

c002b6e2: 85 c0 test eax,eax

c002b6e4: 74 45 je c002b72b <filesys\_create+0x5d>

c002b6e6: 83 ec 08 sub esp,0x8

c002b6e9: 8d 44 24 14 lea eax,[esp+0x14]

c002b6ed: 50 push eax

c002b6ee: 6a 01 push 0x1

c002b6f0: e8 4f 01 00 00 call c002b844 <free\_map\_allocate>

c002b6f5: 83 c4 10 add esp,0x10

c002b6f8: 84 c0 test al,al

c002b6fa: 74 2f je c002b72b <filesys\_create+0x5d>

c002b6fc: 83 ec 08 sub esp,0x8

c002b6ff: ff 74 24 2c push DWORD PTR [esp+0x2c]

c002b703: ff 74 24 18 push DWORD PTR [esp+0x18]

c002b707: e8 6a 0a 00 00 call c002c176 <inode\_create>

c002b70c: 83 c4 10 add esp,0x10

c002b70f: 84 c0 test al,al

c002b711: 74 18 je c002b72b <filesys\_create+0x5d>

c002b713: 83 ec 04 sub esp,0x4

c002b716: ff 74 24 10 push DWORD PTR [esp+0x10]

c002b71a: ff 74 24 28 push DWORD PTR [esp+0x28]

c002b71e: 53 push ebx

c002b71f: e8 d3 07 00 00 call c002bef7 <dir\_add>

c002b724: 83 c4 10 add esp,0x10

c002b727: 84 c0 test al,al

c002b729: 75 1d jne c002b748 <filesys\_create+0x7a>

c002b72b: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

c002b72f: be 00 00 00 00 mov esi,0x0

c002b734: 85 c0 test eax,eax

c002b736: 74 15 je c002b74d <filesys\_create+0x7f>

c002b738: 83 ec 08 sub esp,0x8

c002b73b: 6a 01 push 0x1

c002b73d: 50 push eax

c002b73e: e8 89 01 00 00 call c002b8cc <free\_map\_release>

c002b743: 83 c4 10 add esp,0x10

c002b746: eb 05 jmp c002b74d <filesys\_create+0x7f>

c002b748: be 01 00 00 00 mov esi,0x1

c002b74d: 83 ec 0c sub esp,0xc

c002b750: 53 push ebx

c002b751: e8 e7 06 00 00 call c002be3d <dir\_close>

c002b756: 89 f0 mov eax,esi

c002b758: 83 c4 24 add esp,0x24

c002b75b: 5b pop ebx

c002b75c: 5e pop esi

c002b75d: c3 ret

c002b75e <filesys\_open>:

c002b75e: 53 push ebx

c002b75f: 83 ec 24 sub esp,0x24

c002b762: 68 21 12 03 c0 push 0xc0031221

c002b767: e8 e4 dc ff ff call c0029450 <puts>

c002b76c: e8 9c 06 00 00 call c002be0d <dir\_open\_root>

c002b771: 89 c3 mov ebx,eax

c002b773: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

c002b77a: 00

c002b77b: 83 c4 10 add esp,0x10

c002b77e: 85 c0 test eax,eax

c002b780: 74 15 je c002b797 <filesys\_open+0x39>

c002b782: 83 ec 04 sub esp,0x4

c002b785: 8d 44 24 10 lea eax,[esp+0x10]

c002b789: 50 push eax

c002b78a: ff 74 24 28 push DWORD PTR [esp+0x28]

c002b78e: 53 push ebx

c002b78f: e8 d6 06 00 00 call c002be6a <dir\_lookup>

c002b794: 83 c4 10 add esp,0x10

c002b797: 83 ec 0c sub esp,0xc

c002b79a: 53 push ebx

c002b79b: e8 9d 06 00 00 call c002be3d <dir\_close>

c002b7a0: 83 c4 04 add esp,0x4

c002b7a3: ff 74 24 18 push DWORD PTR [esp+0x18]

c002b7a7: e8 98 02 00 00 call c002ba44 <file\_open>

c002b7ac: 83 c4 28 add esp,0x28

c002b7af: 5b pop ebx

c002b7b0: c3 ret

c002b7b1 <filesys\_remove>:

c002b7b1: 56 push esi

c002b7b2: 53 push ebx

c002b7b3: 83 ec 04 sub esp,0x4

c002b7b6: e8 52 06 00 00 call c002be0d <dir\_open\_root>

c002b7bb: 89 c6 mov esi,eax

c002b7bd: bb 00 00 00 00 mov ebx,0x0

c002b7c2: 85 c0 test eax,eax

c002b7c4: 74 13 je c002b7d9 <filesys\_remove+0x28>

c002b7c6: 83 ec 08 sub esp,0x8

c002b7c9: ff 74 24 18 push DWORD PTR [esp+0x18]

c002b7cd: 50 push eax

c002b7ce: e8 25 08 00 00 call c002bff8 <dir\_remove>

c002b7d3: 0f b6 d8 movzx ebx,al

c002b7d6: 83 c4 10 add esp,0x10

c002b7d9: 83 ec 0c sub esp,0xc

c002b7dc: 56 push esi

c002b7dd: e8 5b 06 00 00 call c002be3d <dir\_close>

c002b7e2: 89 d8 mov eax,ebx

c002b7e4: 83 e0 01 and eax,0x1

c002b7e7: 83 c4 14 add esp,0x14

c002b7ea: 5b pop ebx

c002b7eb: 5e pop esi

c002b7ec: c3 ret

c002b7ed <free\_map\_init>:

c002b7ed: 83 ec 18 sub esp,0x18

c002b7f0: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002b7f6: e8 72 8a ff ff call c002426d <block\_size>

c002b7fb: 89 04 24 mov DWORD PTR [esp],eax

c002b7fe: e8 ea cf ff ff call c00287ed <bitmap\_create>

c002b803: a3 d4 b7 03 c0 mov ds:0xc003b7d4,eax

c002b808: 83 c4 10 add esp,0x10

c002b80b: 85 c0 test eax,eax

c002b80d: 75 16 jne c002b825 <free\_map\_init+0x38>

c002b80f: 68 34 12 03 c0 push 0xc0031234

c002b814: 68 84 eb 02 c0 push 0xc002eb84

c002b819: 6a 15 push 0x15

c002b81b: 68 8f 12 03 c0 push 0xc003128f

c002b820: e8 18 c1 ff ff call c002793d <debug\_panic>

c002b825: 83 ec 08 sub esp,0x8

c002b828: 6a 00 push 0x0

c002b82a: 50 push eax

c002b82b: e8 83 cd ff ff call c00285b3 <bitmap\_mark>

c002b830: 83 c4 08 add esp,0x8

c002b833: 6a 01 push 0x1

c002b835: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b83b: e8 73 cd ff ff call c00285b3 <bitmap\_mark>

c002b840: 83 c4 1c add esp,0x1c

c002b843: c3 ret

c002b844 <free\_map\_allocate>:

c002b844: 56 push esi

c002b845: 53 push ebx

c002b846: 83 ec 10 sub esp,0x10

c002b849: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c002b84d: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b853: e8 00 d4 ff ff call c0028c58 <bitmap\_dump>

c002b858: 6a 00 push 0x0

c002b85a: 56 push esi

c002b85b: 6a 00 push 0x0

c002b85d: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b863: e8 cc d2 ff ff call c0028b34 <bitmap\_scan\_and\_flip>

c002b868: 89 c3 mov ebx,eax

c002b86a: 83 c4 14 add esp,0x14

c002b86d: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b873: e8 e0 d3 ff ff call c0028c58 <bitmap\_dump>

c002b878: 83 c4 10 add esp,0x10

c002b87b: 83 fb ff cmp ebx,0xffffffff

c002b87e: 74 3b je c002b8bb <free\_map\_allocate+0x77>

c002b880: a1 d8 b7 03 c0 mov eax,ds:0xc003b7d8

c002b885: 85 c0 test eax,eax

c002b887: 74 2a je c002b8b3 <free\_map\_allocate+0x6f>

c002b889: 83 ec 08 sub esp,0x8

c002b88c: 50 push eax

c002b88d: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b893: e8 66 d3 ff ff call c0028bfe <bitmap\_write>

c002b898: 83 c4 10 add esp,0x10

c002b89b: 84 c0 test al,al

c002b89d: 75 14 jne c002b8b3 <free\_map\_allocate+0x6f>

c002b89f: 6a 00 push 0x0

c002b8a1: 56 push esi

c002b8a2: 53 push ebx

c002b8a3: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b8a9: e8 4b ce ff ff call c00286f9 <bitmap\_set\_multiple>

c002b8ae: 83 c4 10 add esp,0x10

c002b8b1: eb 08 jmp c002b8bb <free\_map\_allocate+0x77>

c002b8b3: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002b8b7: 89 18 mov DWORD PTR [eax],ebx

c002b8b9: eb 05 jmp c002b8c0 <free\_map\_allocate+0x7c>

c002b8bb: bb ff ff ff ff mov ebx,0xffffffff

c002b8c0: 83 fb ff cmp ebx,0xffffffff

c002b8c3: 0f 95 c0 setne al

c002b8c6: 83 c4 04 add esp,0x4

c002b8c9: 5b pop ebx

c002b8ca: 5e pop esi

c002b8cb: c3 ret

c002b8cc <free\_map\_release>:

c002b8cc: 56 push esi

c002b8cd: 53 push ebx

c002b8ce: 83 ec 08 sub esp,0x8

c002b8d1: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

c002b8d5: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c002b8d9: 56 push esi

c002b8da: 53 push ebx

c002b8db: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b8e1: e8 83 d1 ff ff call c0028a69 <bitmap\_all>

c002b8e6: 83 c4 10 add esp,0x10

c002b8e9: 84 c0 test al,al

c002b8eb: 75 1e jne c002b90b <free\_map\_release+0x3f>

c002b8ed: 83 ec 0c sub esp,0xc

c002b8f0: 68 6c 12 03 c0 push 0xc003126c

c002b8f5: 68 83 ed 02 c0 push 0xc002ed83

c002b8fa: 68 70 eb 02 c0 push 0xc002eb70

c002b8ff: 6a 48 push 0x48

c002b901: 68 8f 12 03 c0 push 0xc003128f

c002b906: e8 32 c0 ff ff call c002793d <debug\_panic>

c002b90b: 6a 00 push 0x0

c002b90d: 56 push esi

c002b90e: 53 push ebx

c002b90f: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b915: e8 df cd ff ff call c00286f9 <bitmap\_set\_multiple>

c002b91a: 83 c4 08 add esp,0x8

c002b91d: ff 35 d8 b7 03 c0 push DWORD PTR ds:0xc003b7d8

c002b923: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b929: e8 d0 d2 ff ff call c0028bfe <bitmap\_write>

c002b92e: 83 c4 14 add esp,0x14

c002b931: 5b pop ebx

c002b932: 5e pop esi

c002b933: c3 ret

c002b934 <free\_map\_open>:

c002b934: 83 ec 18 sub esp,0x18

c002b937: 6a 00 push 0x0

c002b939: e8 2a 09 00 00 call c002c268 <inode\_open>

c002b93e: 89 04 24 mov DWORD PTR [esp],eax

c002b941: e8 fe 00 00 00 call c002ba44 <file\_open>

c002b946: a3 d8 b7 03 c0 mov ds:0xc003b7d8,eax

c002b94b: 83 c4 10 add esp,0x10

c002b94e: 85 c0 test eax,eax

c002b950: 75 16 jne c002b968 <free\_map\_open+0x34>

c002b952: 68 a8 12 03 c0 push 0xc00312a8

c002b957: 68 60 eb 02 c0 push 0xc002eb60

c002b95c: 6a 55 push 0x55

c002b95e: 68 8f 12 03 c0 push 0xc003128f

c002b963: e8 d5 bf ff ff call c002793d <debug\_panic>

c002b968: 83 ec 08 sub esp,0x8

c002b96b: 50 push eax

c002b96c: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b972: e8 15 d2 ff ff call c0028b8c <bitmap\_read>

c002b977: 83 c4 10 add esp,0x10

c002b97a: 84 c0 test al,al

c002b97c: 75 16 jne c002b994 <free\_map\_open+0x60>

c002b97e: 68 bc 12 03 c0 push 0xc00312bc

c002b983: 68 60 eb 02 c0 push 0xc002eb60

c002b988: 6a 59 push 0x59

c002b98a: 68 8f 12 03 c0 push 0xc003128f

c002b98f: e8 a9 bf ff ff call c002793d <debug\_panic>

c002b994: 83 c4 0c add esp,0xc

c002b997: c3 ret

c002b998 <free\_map\_close>:

c002b998: 83 ec 18 sub esp,0x18

c002b99b: ff 35 d8 b7 03 c0 push DWORD PTR ds:0xc003b7d8

c002b9a1: e8 17 02 00 00 call c002bbbd <file\_close>

c002b9a6: 83 c4 1c add esp,0x1c

c002b9a9: c3 ret

c002b9aa <free\_map\_create>:

c002b9aa: 83 ec 18 sub esp,0x18

c002b9ad: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002b9b3: e8 c4 d1 ff ff call c0028b7c <bitmap\_file\_size>

c002b9b8: 83 c4 08 add esp,0x8

c002b9bb: 50 push eax

c002b9bc: 6a 00 push 0x0

c002b9be: e8 b3 07 00 00 call c002c176 <inode\_create>

c002b9c3: 83 c4 10 add esp,0x10

c002b9c6: 84 c0 test al,al

c002b9c8: 75 16 jne c002b9e0 <free\_map\_create+0x36>

c002b9ca: 68 d0 12 03 c0 push 0xc00312d0

c002b9cf: 68 50 eb 02 c0 push 0xc002eb50

c002b9d4: 6a 6e push 0x6e

c002b9d6: 68 8f 12 03 c0 push 0xc003128f

c002b9db: e8 5d bf ff ff call c002793d <debug\_panic>

c002b9e0: 83 ec 0c sub esp,0xc

c002b9e3: 6a 00 push 0x0

c002b9e5: e8 7e 08 00 00 call c002c268 <inode\_open>

c002b9ea: 89 04 24 mov DWORD PTR [esp],eax

c002b9ed: e8 52 00 00 00 call c002ba44 <file\_open>

c002b9f2: a3 d8 b7 03 c0 mov ds:0xc003b7d8,eax

c002b9f7: 83 c4 10 add esp,0x10

c002b9fa: 85 c0 test eax,eax

c002b9fc: 75 16 jne c002ba14 <free\_map\_create+0x6a>

c002b9fe: 68 a8 12 03 c0 push 0xc00312a8

c002ba03: 68 50 eb 02 c0 push 0xc002eb50

c002ba08: 6a 75 push 0x75

c002ba0a: 68 8f 12 03 c0 push 0xc003128f

c002ba0f: e8 29 bf ff ff call c002793d <debug\_panic>

c002ba14: 83 ec 08 sub esp,0x8

c002ba17: 50 push eax

c002ba18: ff 35 d4 b7 03 c0 push DWORD PTR ds:0xc003b7d4

c002ba1e: e8 db d1 ff ff call c0028bfe <bitmap\_write>

c002ba23: 83 c4 10 add esp,0x10

c002ba26: 84 c0 test al,al

c002ba28: 75 16 jne c002ba40 <free\_map\_create+0x96>

c002ba2a: 68 e9 12 03 c0 push 0xc00312e9

c002ba2f: 68 50 eb 02 c0 push 0xc002eb50

c002ba34: 6a 77 push 0x77

c002ba36: 68 8f 12 03 c0 push 0xc003128f

c002ba3b: e8 fd be ff ff call c002793d <debug\_panic>

c002ba40: 83 c4 0c add esp,0xc

c002ba43: c3 ret

c002ba44 <file\_open>:

c002ba44: 56 push esi

c002ba45: 53 push ebx

c002ba46: 83 ec 0c sub esp,0xc

c002ba49: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c002ba4d: 6a 0c push 0xc

c002ba4f: 6a 01 push 0x1

c002ba51: e8 e5 77 ff ff call c002323b <calloc>

c002ba56: 89 c3 mov ebx,eax

c002ba58: 83 c4 10 add esp,0x10

c002ba5b: 85 f6 test esi,esi

c002ba5d: 74 13 je c002ba72 <file\_open+0x2e>

c002ba5f: 85 c0 test eax,eax

c002ba61: 74 0f je c002ba72 <file\_open+0x2e>

c002ba63: 89 30 mov DWORD PTR [eax],esi

c002ba65: c7 40 04 00 00 00 00 mov DWORD PTR [eax+0x4],0x0

c002ba6c: c6 40 08 00 mov BYTE PTR [eax+0x8],0x0

c002ba70: eb 19 jmp c002ba8b <file\_open+0x47>

c002ba72: 83 ec 0c sub esp,0xc

c002ba75: 56 push esi

c002ba76: e8 9f 08 00 00 call c002c31a <inode\_close>

c002ba7b: 89 1c 24 mov DWORD PTR [esp],ebx

c002ba7e: e8 02 78 ff ff call c0023285 <free>

c002ba83: 83 c4 10 add esp,0x10

c002ba86: b8 00 00 00 00 mov eax,0x0

c002ba8b: 83 c4 04 add esp,0x4

c002ba8e: 5b pop ebx

c002ba8f: 5e pop esi

c002ba90: c3 ret

c002ba91 <file\_reopen>:

c002ba91: 83 ec 18 sub esp,0x18

c002ba94: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002ba98: ff 30 push DWORD PTR [eax]

c002ba9a: e8 bb 07 00 00 call c002c25a <inode\_reopen>

c002ba9f: 89 04 24 mov DWORD PTR [esp],eax

c002baa2: e8 9d ff ff ff call c002ba44 <file\_open>

c002baa7: 83 c4 1c add esp,0x1c

c002baaa: c3 ret

c002baab <file\_get\_inode>:

c002baab: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002baaf: 8b 00 mov eax,DWORD PTR [eax]

c002bab1: c3 ret

c002bab2 <file\_read>:

c002bab2: 53 push ebx

c002bab3: 83 ec 08 sub esp,0x8

c002bab6: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002baba: ff 73 04 push DWORD PTR [ebx+0x4]

c002babd: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bac1: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bac5: ff 33 push DWORD PTR [ebx]

c002bac7: e8 f1 08 00 00 call c002c3bd <inode\_read\_at>

c002bacc: 01 43 04 add DWORD PTR [ebx+0x4],eax

c002bacf: 83 c4 18 add esp,0x18

c002bad2: 5b pop ebx

c002bad3: c3 ret

c002bad4 <file\_read\_at>:

c002bad4: 83 ec 0c sub esp,0xc

c002bad7: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002badb: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002badf: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bae3: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002bae7: ff 30 push DWORD PTR [eax]

c002bae9: e8 cf 08 00 00 call c002c3bd <inode\_read\_at>

c002baee: 83 c4 1c add esp,0x1c

c002baf1: c3 ret

c002baf2 <file\_write>:

c002baf2: 53 push ebx

c002baf3: 83 ec 08 sub esp,0x8

c002baf6: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002bafa: ff 73 04 push DWORD PTR [ebx+0x4]

c002bafd: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bb01: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bb05: ff 33 push DWORD PTR [ebx]

c002bb07: e8 d5 09 00 00 call c002c4e1 <inode\_write\_at>

c002bb0c: 01 43 04 add DWORD PTR [ebx+0x4],eax

c002bb0f: 83 c4 18 add esp,0x18

c002bb12: 5b pop ebx

c002bb13: c3 ret

c002bb14 <file\_write\_at>:

c002bb14: 83 ec 0c sub esp,0xc

c002bb17: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bb1b: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bb1f: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bb23: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002bb27: ff 30 push DWORD PTR [eax]

c002bb29: e8 b3 09 00 00 call c002c4e1 <inode\_write\_at>

c002bb2e: 83 c4 1c add esp,0x1c

c002bb31: c3 ret

c002bb32 <file\_deny\_write>:

c002bb32: 83 ec 0c sub esp,0xc

c002bb35: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002bb39: 85 c0 test eax,eax

c002bb3b: 75 1e jne c002bb5b <file\_deny\_write+0x29>

c002bb3d: 83 ec 0c sub esp,0xc

c002bb40: 68 fe 12 03 c0 push 0xc00312fe

c002bb45: 68 83 ed 02 c0 push 0xc002ed83

c002bb4a: 68 cc eb 02 c0 push 0xc002ebcc

c002bb4f: 6a 7c push 0x7c

c002bb51: 68 0b 13 03 c0 push 0xc003130b

c002bb56: e8 e2 bd ff ff call c002793d <debug\_panic>

c002bb5b: 80 78 08 00 cmp BYTE PTR [eax+0x8],0x0

c002bb5f: 75 11 jne c002bb72 <file\_deny\_write+0x40>

c002bb61: c6 40 08 01 mov BYTE PTR [eax+0x8],0x1

c002bb65: 83 ec 0c sub esp,0xc

c002bb68: ff 30 push DWORD PTR [eax]

c002bb6a: e8 ea 0a 00 00 call c002c659 <inode\_deny\_write>

c002bb6f: 83 c4 10 add esp,0x10

c002bb72: 83 c4 0c add esp,0xc

c002bb75: c3 ret

c002bb76 <file\_allow\_write>:

c002bb76: 83 ec 0c sub esp,0xc

c002bb79: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002bb7d: 85 c0 test eax,eax

c002bb7f: 75 21 jne c002bba2 <file\_allow\_write+0x2c>

c002bb81: 83 ec 0c sub esp,0xc

c002bb84: 68 fe 12 03 c0 push 0xc00312fe

c002bb89: 68 83 ed 02 c0 push 0xc002ed83

c002bb8e: 68 b8 eb 02 c0 push 0xc002ebb8

c002bb93: 68 8a 00 00 00 push 0x8a

c002bb98: 68 0b 13 03 c0 push 0xc003130b

c002bb9d: e8 9b bd ff ff call c002793d <debug\_panic>

c002bba2: 80 78 08 00 cmp BYTE PTR [eax+0x8],0x0

c002bba6: 74 11 je c002bbb9 <file\_allow\_write+0x43>

c002bba8: c6 40 08 00 mov BYTE PTR [eax+0x8],0x0

c002bbac: 83 ec 0c sub esp,0xc

c002bbaf: ff 30 push DWORD PTR [eax]

c002bbb1: e8 dd 0a 00 00 call c002c693 <inode\_allow\_write>

c002bbb6: 83 c4 10 add esp,0x10

c002bbb9: 83 c4 0c add esp,0xc

c002bbbc: c3 ret

c002bbbd <file\_close>:

c002bbbd: 53 push ebx

c002bbbe: 83 ec 08 sub esp,0x8

c002bbc1: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002bbc5: 85 db test ebx,ebx

c002bbc7: 74 1e je c002bbe7 <file\_close+0x2a>

c002bbc9: 83 ec 0c sub esp,0xc

c002bbcc: 53 push ebx

c002bbcd: e8 a4 ff ff ff call c002bb76 <file\_allow\_write>

c002bbd2: 83 c4 04 add esp,0x4

c002bbd5: ff 33 push DWORD PTR [ebx]

c002bbd7: e8 3e 07 00 00 call c002c31a <inode\_close>

c002bbdc: 89 1c 24 mov DWORD PTR [esp],ebx

c002bbdf: e8 a1 76 ff ff call c0023285 <free>

c002bbe4: 83 c4 10 add esp,0x10

c002bbe7: 83 c4 08 add esp,0x8

c002bbea: 5b pop ebx

c002bbeb: c3 ret

c002bbec <file\_length>:

c002bbec: 83 ec 0c sub esp,0xc

c002bbef: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002bbf3: 85 c0 test eax,eax

c002bbf5: 75 21 jne c002bc18 <file\_length+0x2c>

c002bbf7: 83 ec 0c sub esp,0xc

c002bbfa: 68 fe 12 03 c0 push 0xc00312fe

c002bbff: 68 83 ed 02 c0 push 0xc002ed83

c002bc04: 68 ac eb 02 c0 push 0xc002ebac

c002bc09: 68 96 00 00 00 push 0x96

c002bc0e: 68 0b 13 03 c0 push 0xc003130b

c002bc13: e8 25 bd ff ff call c002793d <debug\_panic>

c002bc18: 83 ec 0c sub esp,0xc

c002bc1b: ff 30 push DWORD PTR [eax]

c002bc1d: e8 d0 0a 00 00 call c002c6f2 <inode\_length>

c002bc22: 83 c4 1c add esp,0x1c

c002bc25: c3 ret

c002bc26 <file\_seek>:

c002bc26: 83 ec 0c sub esp,0xc

c002bc29: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002bc2d: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

c002bc31: 85 c0 test eax,eax

c002bc33: 75 21 jne c002bc56 <file\_seek+0x30>

c002bc35: 83 ec 0c sub esp,0xc

c002bc38: 68 fe 12 03 c0 push 0xc00312fe

c002bc3d: 68 83 ed 02 c0 push 0xc002ed83

c002bc42: 68 a0 eb 02 c0 push 0xc002eba0

c002bc47: 68 9f 00 00 00 push 0x9f

c002bc4c: 68 0b 13 03 c0 push 0xc003130b

c002bc51: e8 e7 bc ff ff call c002793d <debug\_panic>

c002bc56: 85 d2 test edx,edx

c002bc58: 79 21 jns c002bc7b <file\_seek+0x55>

c002bc5a: 83 ec 0c sub esp,0xc

c002bc5d: 68 20 13 03 c0 push 0xc0031320

c002bc62: 68 83 ed 02 c0 push 0xc002ed83

c002bc67: 68 a0 eb 02 c0 push 0xc002eba0

c002bc6c: 68 a0 00 00 00 push 0xa0

c002bc71: 68 0b 13 03 c0 push 0xc003130b

c002bc76: e8 c2 bc ff ff call c002793d <debug\_panic>

c002bc7b: 89 50 04 mov DWORD PTR [eax+0x4],edx

c002bc7e: 83 c4 0c add esp,0xc

c002bc81: c3 ret

c002bc82 <file\_tell>:

c002bc82: 83 ec 0c sub esp,0xc

c002bc85: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002bc89: 85 c0 test eax,eax

c002bc8b: 75 21 jne c002bcae <file\_tell+0x2c>

c002bc8d: 83 ec 0c sub esp,0xc

c002bc90: 68 fe 12 03 c0 push 0xc00312fe

c002bc95: 68 83 ed 02 c0 push 0xc002ed83

c002bc9a: 68 94 eb 02 c0 push 0xc002eb94

c002bc9f: 68 a9 00 00 00 push 0xa9

c002bca4: 68 0b 13 03 c0 push 0xc003130b

c002bca9: e8 8f bc ff ff call c002793d <debug\_panic>

c002bcae: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c002bcb1: 83 c4 0c add esp,0xc

c002bcb4: c3 ret

c002bcb5 <lookup>:

c002bcb5: 55 push ebp

c002bcb6: 57 push edi

c002bcb7: 56 push esi

c002bcb8: 53 push ebx

c002bcb9: 83 ec 3c sub esp,0x3c

c002bcbc: 89 54 24 08 mov DWORD PTR [esp+0x8],edx

c002bcc0: 89 4c 24 0c mov DWORD PTR [esp+0xc],ecx

c002bcc4: 85 c0 test eax,eax

c002bcc6: 75 1e jne c002bce6 <lookup+0x31>

c002bcc8: 83 ec 0c sub esp,0xc

c002bccb: 68 2d 13 03 c0 push 0xc003132d

c002bcd0: 68 83 ed 02 c0 push 0xc002ed83

c002bcd5: 68 f0 eb 02 c0 push 0xc002ebf0

c002bcda: 6a 62 push 0x62

c002bcdc: 68 39 13 03 c0 push 0xc0031339

c002bce1: e8 57 bc ff ff call c002793d <debug\_panic>

c002bce6: 89 c7 mov edi,eax

c002bce8: 83 7c 24 08 00 cmp DWORD PTR [esp+0x8],0x0

c002bced: 0f 85 83 00 00 00 jne c002bd76 <lookup+0xc1>

c002bcf3: 83 ec 0c sub esp,0xc

c002bcf6: 68 b7 f3 02 c0 push 0xc002f3b7

c002bcfb: 68 83 ed 02 c0 push 0xc002ed83

c002bd00: 68 f0 eb 02 c0 push 0xc002ebf0

c002bd05: 6a 63 push 0x63

c002bd07: 68 39 13 03 c0 push 0xc0031339

c002bd0c: e8 2c bc ff ff call c002793d <debug\_panic>

c002bd11: 0f b6 74 24 2f movzx esi,BYTE PTR [esp+0x2f]

c002bd16: 89 f0 mov eax,esi

c002bd18: 84 c0 test al,al

c002bd1a: 74 55 je c002bd71 <lookup+0xbc>

c002bd1c: 83 ec 08 sub esp,0x8

c002bd1f: 8d 44 24 28 lea eax,[esp+0x28]

c002bd23: 50 push eax

c002bd24: ff 74 24 14 push DWORD PTR [esp+0x14]

c002bd28: e8 a7 ae ff ff call c0026bd4 <strcmp>

c002bd2d: 83 c4 10 add esp,0x10

c002bd30: 85 c0 test eax,eax

c002bd32: 75 3d jne c002bd71 <lookup+0xbc>

c002bd34: 8b 54 24 0c mov edx,DWORD PTR [esp+0xc]

c002bd38: 85 d2 test edx,edx

c002bd3a: 74 22 je c002bd5e <lookup+0xa9>

c002bd3c: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002bd40: 89 02 mov DWORD PTR [edx],eax

c002bd42: 8b 44 24 20 mov eax,DWORD PTR [esp+0x20]

c002bd46: 89 42 04 mov DWORD PTR [edx+0x4],eax

c002bd49: 8b 44 24 24 mov eax,DWORD PTR [esp+0x24]

c002bd4d: 89 42 08 mov DWORD PTR [edx+0x8],eax

c002bd50: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

c002bd54: 89 42 0c mov DWORD PTR [edx+0xc],eax

c002bd57: 8b 44 24 2c mov eax,DWORD PTR [esp+0x2c]

c002bd5b: 89 42 10 mov DWORD PTR [edx+0x10],eax

c002bd5e: 83 7c 24 50 00 cmp DWORD PTR [esp+0x50],0x0

c002bd63: 74 3a je c002bd9f <lookup+0xea>

c002bd65: 8b 44 24 50 mov eax,DWORD PTR [esp+0x50]

c002bd69: 8b 4c 24 04 mov ecx,DWORD PTR [esp+0x4]

c002bd6d: 89 08 mov DWORD PTR [eax],ecx

c002bd6f: eb 2e jmp c002bd9f <lookup+0xea>

c002bd71: 83 c3 14 add ebx,0x14

c002bd74: eb 09 jmp c002bd7f <lookup+0xca>

c002bd76: bb 00 00 00 00 mov ebx,0x0

c002bd7b: 8d 6c 24 1c lea ebp,[esp+0x1c]

c002bd7f: 89 5c 24 04 mov DWORD PTR [esp+0x4],ebx

c002bd83: 53 push ebx

c002bd84: 6a 14 push 0x14

c002bd86: 55 push ebp

c002bd87: ff 37 push DWORD PTR [edi]

c002bd89: e8 2f 06 00 00 call c002c3bd <inode\_read\_at>

c002bd8e: 83 c4 10 add esp,0x10

c002bd91: 83 f8 14 cmp eax,0x14

c002bd94: 0f 84 77 ff ff ff je c002bd11 <lookup+0x5c>

c002bd9a: be 00 00 00 00 mov esi,0x0

c002bd9f: 89 f0 mov eax,esi

c002bda1: 83 c4 3c add esp,0x3c

c002bda4: 5b pop ebx

c002bda5: 5e pop esi

c002bda6: 5f pop edi

c002bda7: 5d pop ebp

c002bda8: c3 ret

c002bda9 <dir\_create>:

c002bda9: 83 ec 14 sub esp,0x14

c002bdac: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002bdb0: 8d 04 80 lea eax,[eax+eax\*4]

c002bdb3: c1 e0 02 shl eax,0x2

c002bdb6: 50 push eax

c002bdb7: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002bdbb: e8 b6 03 00 00 call c002c176 <inode\_create>

c002bdc0: 83 c4 1c add esp,0x1c

c002bdc3: c3 ret

c002bdc4 <dir\_open>:

c002bdc4: 56 push esi

c002bdc5: 53 push ebx

c002bdc6: 83 ec 0c sub esp,0xc

c002bdc9: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

c002bdcd: 6a 08 push 0x8

c002bdcf: 6a 01 push 0x1

c002bdd1: e8 65 74 ff ff call c002323b <calloc>

c002bdd6: 89 c3 mov ebx,eax

c002bdd8: 83 c4 10 add esp,0x10

c002bddb: 85 f6 test esi,esi

c002bddd: 74 0f je c002bdee <dir\_open+0x2a>

c002bddf: 85 c0 test eax,eax

c002bde1: 74 0b je c002bdee <dir\_open+0x2a>

c002bde3: 89 30 mov DWORD PTR [eax],esi

c002bde5: c7 40 04 00 00 00 00 mov DWORD PTR [eax+0x4],0x0

c002bdec: eb 19 jmp c002be07 <dir\_open+0x43>

c002bdee: 83 ec 0c sub esp,0xc

c002bdf1: 56 push esi

c002bdf2: e8 23 05 00 00 call c002c31a <inode\_close>

c002bdf7: 89 1c 24 mov DWORD PTR [esp],ebx

c002bdfa: e8 86 74 ff ff call c0023285 <free>

c002bdff: 83 c4 10 add esp,0x10

c002be02: b8 00 00 00 00 mov eax,0x0

c002be07: 83 c4 04 add esp,0x4

c002be0a: 5b pop ebx

c002be0b: 5e pop esi

c002be0c: c3 ret

c002be0d <dir\_open\_root>:

c002be0d: 83 ec 18 sub esp,0x18

c002be10: 6a 01 push 0x1

c002be12: e8 51 04 00 00 call c002c268 <inode\_open>

c002be17: 89 04 24 mov DWORD PTR [esp],eax

c002be1a: e8 a5 ff ff ff call c002bdc4 <dir\_open>

c002be1f: 83 c4 1c add esp,0x1c

c002be22: c3 ret

c002be23 <dir\_reopen>:

c002be23: 83 ec 18 sub esp,0x18

c002be26: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002be2a: ff 30 push DWORD PTR [eax]

c002be2c: e8 29 04 00 00 call c002c25a <inode\_reopen>

c002be31: 89 04 24 mov DWORD PTR [esp],eax

c002be34: e8 8b ff ff ff call c002bdc4 <dir\_open>

c002be39: 83 c4 1c add esp,0x1c

c002be3c: c3 ret

c002be3d <dir\_close>:

c002be3d: 53 push ebx

c002be3e: 83 ec 08 sub esp,0x8

c002be41: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002be45: 85 db test ebx,ebx

c002be47: 74 15 je c002be5e <dir\_close+0x21>

c002be49: 83 ec 0c sub esp,0xc

c002be4c: ff 33 push DWORD PTR [ebx]

c002be4e: e8 c7 04 00 00 call c002c31a <inode\_close>

c002be53: 89 1c 24 mov DWORD PTR [esp],ebx

c002be56: e8 2a 74 ff ff call c0023285 <free>

c002be5b: 83 c4 10 add esp,0x10

c002be5e: 83 c4 08 add esp,0x8

c002be61: 5b pop ebx

c002be62: c3 ret

c002be63 <dir\_get\_inode>:

c002be63: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002be67: 8b 00 mov eax,DWORD PTR [eax]

c002be69: c3 ret

c002be6a <dir\_lookup>:

c002be6a: 53 push ebx

c002be6b: 83 ec 28 sub esp,0x28

c002be6e: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002be72: 8b 54 24 34 mov edx,DWORD PTR [esp+0x34]

c002be76: 8b 5c 24 38 mov ebx,DWORD PTR [esp+0x38]

c002be7a: 85 c0 test eax,eax

c002be7c: 75 1e jne c002be9c <dir\_lookup+0x32>

c002be7e: 83 ec 0c sub esp,0xc

c002be81: 68 2d 13 03 c0 push 0xc003132d

c002be86: 68 83 ed 02 c0 push 0xc002ed83

c002be8b: 68 f8 eb 02 c0 push 0xc002ebf8

c002be90: 6a 7c push 0x7c

c002be92: 68 39 13 03 c0 push 0xc0031339

c002be97: e8 a1 ba ff ff call c002793d <debug\_panic>

c002be9c: 85 d2 test edx,edx

c002be9e: 75 1e jne c002bebe <dir\_lookup+0x54>

c002bea0: 83 ec 0c sub esp,0xc

c002bea3: 68 b7 f3 02 c0 push 0xc002f3b7

c002bea8: 68 83 ed 02 c0 push 0xc002ed83

c002bead: 68 f8 eb 02 c0 push 0xc002ebf8

c002beb2: 6a 7d push 0x7d

c002beb4: 68 39 13 03 c0 push 0xc0031339

c002beb9: e8 7f ba ff ff call c002793d <debug\_panic>

c002bebe: 83 ec 0c sub esp,0xc

c002bec1: 6a 00 push 0x0

c002bec3: 8d 4c 24 1c lea ecx,[esp+0x1c]

c002bec7: e8 e9 fd ff ff call c002bcb5 <lookup>

c002becc: 83 c4 10 add esp,0x10

c002becf: 84 c0 test al,al

c002bed1: 74 13 je c002bee6 <dir\_lookup+0x7c>

c002bed3: 83 ec 0c sub esp,0xc

c002bed6: ff 74 24 18 push DWORD PTR [esp+0x18]

c002beda: e8 89 03 00 00 call c002c268 <inode\_open>

c002bedf: 89 03 mov DWORD PTR [ebx],eax

c002bee1: 83 c4 10 add esp,0x10

c002bee4: eb 06 jmp c002beec <dir\_lookup+0x82>

c002bee6: c7 03 00 00 00 00 mov DWORD PTR [ebx],0x0

c002beec: 83 3b 00 cmp DWORD PTR [ebx],0x0

c002beef: 0f 95 c0 setne al

c002bef2: 83 c4 28 add esp,0x28

c002bef5: 5b pop ebx

c002bef6: c3 ret

c002bef7 <dir\_add>:

c002bef7: 55 push ebp

c002bef8: 57 push edi

c002bef9: 56 push esi

c002befa: 53 push ebx

c002befb: 83 ec 2c sub esp,0x2c

c002befe: 8b 74 24 40 mov esi,DWORD PTR [esp+0x40]

c002bf02: 8b 6c 24 44 mov ebp,DWORD PTR [esp+0x44]

c002bf06: 85 f6 test esi,esi

c002bf08: 75 21 jne c002bf2b <dir\_add+0x34>

c002bf0a: 83 ec 0c sub esp,0xc

c002bf0d: 68 2d 13 03 c0 push 0xc003132d

c002bf12: 68 83 ed 02 c0 push 0xc002ed83

c002bf17: 68 e8 eb 02 c0 push 0xc002ebe8

c002bf1c: 68 94 00 00 00 push 0x94

c002bf21: 68 39 13 03 c0 push 0xc0031339

c002bf26: e8 12 ba ff ff call c002793d <debug\_panic>

c002bf2b: 85 ed test ebp,ebp

c002bf2d: 75 21 jne c002bf50 <dir\_add+0x59>

c002bf2f: 83 ec 0c sub esp,0xc

c002bf32: 68 b7 f3 02 c0 push 0xc002f3b7

c002bf37: 68 83 ed 02 c0 push 0xc002ed83

c002bf3c: 68 e8 eb 02 c0 push 0xc002ebe8

c002bf41: 68 95 00 00 00 push 0x95

c002bf46: 68 39 13 03 c0 push 0xc0031339

c002bf4b: e8 ed b9 ff ff call c002793d <debug\_panic>

c002bf50: b8 00 00 00 00 mov eax,0x0

c002bf55: 80 7d 00 00 cmp BYTE PTR [ebp+0x0],0x0

c002bf59: 0f 84 91 00 00 00 je c002bff0 <dir\_add+0xf9>

c002bf5f: b9 ff ff ff ff mov ecx,0xffffffff

c002bf64: 89 ef mov edi,ebp

c002bf66: f2 ae repnz scas al,BYTE PTR es:[edi]

c002bf68: f7 d1 not ecx

c002bf6a: 83 e9 01 sub ecx,0x1

c002bf6d: 83 f9 0e cmp ecx,0xe

c002bf70: 77 7e ja c002bff0 <dir\_add+0xf9>

c002bf72: 83 ec 0c sub esp,0xc

c002bf75: 6a 00 push 0x0

c002bf77: b9 00 00 00 00 mov ecx,0x0

c002bf7c: 89 ea mov edx,ebp

c002bf7e: 89 f0 mov eax,esi

c002bf80: e8 30 fd ff ff call c002bcb5 <lookup>

c002bf85: 89 c2 mov edx,eax

c002bf87: 83 c4 10 add esp,0x10

c002bf8a: b8 00 00 00 00 mov eax,0x0

c002bf8f: 84 d2 test dl,dl

c002bf91: 75 5d jne c002bff0 <dir\_add+0xf9>

c002bf93: bb 00 00 00 00 mov ebx,0x0

c002bf98: 8d 7c 24 0c lea edi,[esp+0xc]

c002bf9c: eb 0a jmp c002bfa8 <dir\_add+0xb1>

c002bf9e: 80 7c 24 1f 00 cmp BYTE PTR [esp+0x1f],0x0

c002bfa3: 74 16 je c002bfbb <dir\_add+0xc4>

c002bfa5: 83 c3 14 add ebx,0x14

c002bfa8: 53 push ebx

c002bfa9: 6a 14 push 0x14

c002bfab: 57 push edi

c002bfac: ff 36 push DWORD PTR [esi]

c002bfae: e8 0a 04 00 00 call c002c3bd <inode\_read\_at>

c002bfb3: 83 c4 10 add esp,0x10

c002bfb6: 83 f8 14 cmp eax,0x14

c002bfb9: 74 e3 je c002bf9e <dir\_add+0xa7>

c002bfbb: c6 44 24 1f 01 mov BYTE PTR [esp+0x1f],0x1

c002bfc0: 83 ec 04 sub esp,0x4

c002bfc3: 6a 0f push 0xf

c002bfc5: 55 push ebp

c002bfc6: 8d 7c 24 18 lea edi,[esp+0x18]

c002bfca: 8d 44 24 1c lea eax,[esp+0x1c]

c002bfce: 50 push eax

c002bfcf: e8 7d b0 ff ff call c0027051 <strlcpy>

c002bfd4: 8b 44 24 58 mov eax,DWORD PTR [esp+0x58]

c002bfd8: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c002bfdc: 53 push ebx

c002bfdd: 6a 14 push 0x14

c002bfdf: 57 push edi

c002bfe0: ff 36 push DWORD PTR [esi]

c002bfe2: e8 fa 04 00 00 call c002c4e1 <inode\_write\_at>

c002bfe7: 83 c4 20 add esp,0x20

c002bfea: 83 f8 14 cmp eax,0x14

c002bfed: 0f 94 c0 sete al

c002bff0: 83 c4 2c add esp,0x2c

c002bff3: 5b pop ebx

c002bff4: 5e pop esi

c002bff5: 5f pop edi

c002bff6: 5d pop ebp

c002bff7: c3 ret

c002bff8 <dir\_remove>:

c002bff8: 57 push edi

c002bff9: 56 push esi

c002bffa: 53 push ebx

c002bffb: 83 ec 20 sub esp,0x20

c002bffe: 8b 5c 24 30 mov ebx,DWORD PTR [esp+0x30]

c002c002: 8b 54 24 34 mov edx,DWORD PTR [esp+0x34]

c002c006: 85 db test ebx,ebx

c002c008: 75 21 jne c002c02b <dir\_remove+0x33>

c002c00a: 83 ec 0c sub esp,0xc

c002c00d: 68 2d 13 03 c0 push 0xc003132d

c002c012: 68 83 ed 02 c0 push 0xc002ed83

c002c017: 68 dc eb 02 c0 push 0xc002ebdc

c002c01c: 68 c0 00 00 00 push 0xc0

c002c021: 68 39 13 03 c0 push 0xc0031339

c002c026: e8 12 b9 ff ff call c002793d <debug\_panic>

c002c02b: 85 d2 test edx,edx

c002c02d: 75 21 jne c002c050 <dir\_remove+0x58>

c002c02f: 83 ec 0c sub esp,0xc

c002c032: 68 b7 f3 02 c0 push 0xc002f3b7

c002c037: 68 83 ed 02 c0 push 0xc002ed83

c002c03c: 68 dc eb 02 c0 push 0xc002ebdc

c002c041: 68 c1 00 00 00 push 0xc1

c002c046: 68 39 13 03 c0 push 0xc0031339

c002c04b: e8 ed b8 ff ff call c002793d <debug\_panic>

c002c050: 83 ec 0c sub esp,0xc

c002c053: 8d 44 24 14 lea eax,[esp+0x14]

c002c057: 50 push eax

c002c058: 8d 4c 24 1c lea ecx,[esp+0x1c]

c002c05c: 89 d8 mov eax,ebx

c002c05e: e8 52 fc ff ff call c002bcb5 <lookup>

c002c063: 83 c4 10 add esp,0x10

c002c066: bf 00 00 00 00 mov edi,0x0

c002c06b: be 00 00 00 00 mov esi,0x0

c002c070: 84 c0 test al,al

c002c072: 74 45 je c002c0b9 <dir\_remove+0xc1>

c002c074: 83 ec 0c sub esp,0xc

c002c077: ff 74 24 18 push DWORD PTR [esp+0x18]

c002c07b: e8 e8 01 00 00 call c002c268 <inode\_open>

c002c080: 89 c6 mov esi,eax

c002c082: 83 c4 10 add esp,0x10

c002c085: 85 c0 test eax,eax

c002c087: 74 30 je c002c0b9 <dir\_remove+0xc1>

c002c089: c6 44 24 1f 00 mov BYTE PTR [esp+0x1f],0x0

c002c08e: ff 74 24 08 push DWORD PTR [esp+0x8]

c002c092: 6a 14 push 0x14

c002c094: 8d 44 24 14 lea eax,[esp+0x14]

c002c098: 50 push eax

c002c099: ff 33 push DWORD PTR [ebx]

c002c09b: e8 41 04 00 00 call c002c4e1 <inode\_write\_at>

c002c0a0: 83 c4 10 add esp,0x10

c002c0a3: 83 f8 14 cmp eax,0x14

c002c0a6: 75 11 jne c002c0b9 <dir\_remove+0xc1>

c002c0a8: 83 ec 0c sub esp,0xc

c002c0ab: 56 push esi

c002c0ac: e8 d8 02 00 00 call c002c389 <inode\_remove>

c002c0b1: 83 c4 10 add esp,0x10

c002c0b4: bf 01 00 00 00 mov edi,0x1

c002c0b9: 83 ec 0c sub esp,0xc

c002c0bc: 56 push esi

c002c0bd: e8 58 02 00 00 call c002c31a <inode\_close>

c002c0c2: 89 f8 mov eax,edi

c002c0c4: 83 c4 30 add esp,0x30

c002c0c7: 5b pop ebx

c002c0c8: 5e pop esi

c002c0c9: 5f pop edi

c002c0ca: c3 ret

c002c0cb <dir\_readdir>:

c002c0cb: 57 push edi

c002c0cc: 56 push esi

c002c0cd: 53 push ebx

c002c0ce: 83 ec 20 sub esp,0x20

c002c0d1: 8b 5c 24 30 mov ebx,DWORD PTR [esp+0x30]

c002c0d5: 8d 7c 24 0c lea edi,[esp+0xc]

c002c0d9: eb 27 jmp c002c102 <dir\_readdir+0x37>

c002c0db: 83 43 04 14 add DWORD PTR [ebx+0x4],0x14

c002c0df: 0f b6 74 24 1f movzx esi,BYTE PTR [esp+0x1f]

c002c0e4: 89 f0 mov eax,esi

c002c0e6: 84 c0 test al,al

c002c0e8: 74 18 je c002c102 <dir\_readdir+0x37>

c002c0ea: 83 ec 04 sub esp,0x4

c002c0ed: 6a 0f push 0xf

c002c0ef: 8d 44 24 18 lea eax,[esp+0x18]

c002c0f3: 50 push eax

c002c0f4: ff 74 24 40 push DWORD PTR [esp+0x40]

c002c0f8: e8 54 af ff ff call c0027051 <strlcpy>

c002c0fd: 83 c4 10 add esp,0x10

c002c100: eb 1a jmp c002c11c <dir\_readdir+0x51>

c002c102: ff 73 04 push DWORD PTR [ebx+0x4]

c002c105: 6a 14 push 0x14

c002c107: 57 push edi

c002c108: ff 33 push DWORD PTR [ebx]

c002c10a: e8 ae 02 00 00 call c002c3bd <inode\_read\_at>

c002c10f: 83 c4 10 add esp,0x10

c002c112: 83 f8 14 cmp eax,0x14

c002c115: 74 c4 je c002c0db <dir\_readdir+0x10>

c002c117: be 00 00 00 00 mov esi,0x0

c002c11c: 89 f0 mov eax,esi

c002c11e: 83 c4 20 add esp,0x20

c002c121: 5b pop ebx

c002c122: 5e pop esi

c002c123: 5f pop edi

c002c124: c3 ret

c002c125 <byte\_to\_sector>:

c002c125: 85 c0 test eax,eax

c002c127: 75 1e jne c002c147 <byte\_to\_sector+0x22>

c002c129: 83 ec 18 sub esp,0x18

c002c12c: 68 53 13 03 c0 push 0xc0031353

c002c131: 68 83 ed 02 c0 push 0xc002ed83

c002c136: 68 2c ec 02 c0 push 0xc002ec2c

c002c13b: 6a 31 push 0x31

c002c13d: 68 61 13 03 c0 push 0xc0031361

c002c142: e8 f6 b7 ff ff call c002793d <debug\_panic>

c002c147: b9 ff ff ff ff mov ecx,0xffffffff

c002c14c: 39 50 1c cmp DWORD PTR [eax+0x1c],edx

c002c14f: 7e 11 jle c002c162 <byte\_to\_sector+0x3d>

c002c151: 8d 8a ff 01 00 00 lea ecx,[edx+0x1ff]

c002c157: 85 d2 test edx,edx

c002c159: 0f 49 ca cmovns ecx,edx

c002c15c: c1 f9 09 sar ecx,0x9

c002c15f: 03 48 18 add ecx,DWORD PTR [eax+0x18]

c002c162: 89 c8 mov eax,ecx

c002c164: c3 ret

c002c165 <inode\_init>:

c002c165: 83 ec 18 sub esp,0x18

c002c168: 68 e0 b9 03 c0 push 0xc003b9e0

c002c16d: e8 72 b8 ff ff call c00279e4 <list\_init>

c002c172: 83 c4 1c add esp,0x1c

c002c175: c3 ret

c002c176 <inode\_create>:

c002c176: 55 push ebp

c002c177: 57 push edi

c002c178: 56 push esi

c002c179: 53 push ebx

c002c17a: 83 ec 1c sub esp,0x1c

c002c17d: 8b 7c 24 34 mov edi,DWORD PTR [esp+0x34]

c002c181: 85 ff test edi,edi

c002c183: 79 1e jns c002c1a3 <inode\_create+0x2d>

c002c185: 83 ec 0c sub esp,0xc

c002c188: 68 77 13 03 c0 push 0xc0031377

c002c18d: 68 83 ed 02 c0 push 0xc002ed83

c002c192: 68 4c ec 02 c0 push 0xc002ec4c

c002c197: 6a 50 push 0x50

c002c199: 68 61 13 03 c0 push 0xc0031361

c002c19e: e8 9a b7 ff ff call c002793d <debug\_panic>

c002c1a3: 83 ec 08 sub esp,0x8

c002c1a6: 68 00 02 00 00 push 0x200

c002c1ab: 6a 01 push 0x1

c002c1ad: e8 89 70 ff ff call c002323b <calloc>

c002c1b2: 89 c3 mov ebx,eax

c002c1b4: 83 c4 10 add esp,0x10

c002c1b7: bd 00 00 00 00 mov ebp,0x0

c002c1bc: 85 c0 test eax,eax

c002c1be: 0f 84 8c 00 00 00 je c002c250 <inode\_create+0xda>

c002c1c4: 8d 87 fe 03 00 00 lea eax,[edi+0x3fe]

c002c1ca: 89 fe mov esi,edi

c002c1cc: 81 c6 ff 01 00 00 add esi,0x1ff

c002c1d2: 0f 48 f0 cmovs esi,eax

c002c1d5: c1 fe 09 sar esi,0x9

c002c1d8: 89 74 24 0c mov DWORD PTR [esp+0xc],esi

c002c1dc: 89 7b 04 mov DWORD PTR [ebx+0x4],edi

c002c1df: c7 43 08 44 4f 4e 49 mov DWORD PTR [ebx+0x8],0x494e4f44

c002c1e6: 83 ec 08 sub esp,0x8

c002c1e9: 53 push ebx

c002c1ea: 56 push esi

c002c1eb: e8 54 f6 ff ff call c002b844 <free\_map\_allocate>

c002c1f0: 83 c4 10 add esp,0x10

c002c1f3: 84 c0 test al,al

c002c1f5: 74 4d je c002c244 <inode\_create+0xce>

c002c1f7: 83 ec 04 sub esp,0x4

c002c1fa: 53 push ebx

c002c1fb: ff 74 24 38 push DWORD PTR [esp+0x38]

c002c1ff: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c205: e8 07 80 ff ff call c0024211 <block\_write>

c002c20a: 83 c4 10 add esp,0x10

c002c20d: bd 01 00 00 00 mov ebp,0x1

c002c212: 85 f6 test esi,esi

c002c214: 74 2e je c002c244 <inode\_create+0xce>

c002c216: be 00 00 00 00 mov esi,0x0

c002c21b: 83 ec 04 sub esp,0x4

c002c21e: 68 e0 b7 03 c0 push 0xc003b7e0

c002c223: 89 f0 mov eax,esi

c002c225: 03 03 add eax,DWORD PTR [ebx]

c002c227: 50 push eax

c002c228: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c22e: e8 de 7f ff ff call c0024211 <block\_write>

c002c233: 83 c6 01 add esi,0x1

c002c236: 83 c4 10 add esp,0x10

c002c239: 3b 74 24 0c cmp esi,DWORD PTR [esp+0xc]

c002c23d: 75 dc jne c002c21b <inode\_create+0xa5>

c002c23f: bd 01 00 00 00 mov ebp,0x1

c002c244: 83 ec 0c sub esp,0xc

c002c247: 53 push ebx

c002c248: e8 38 70 ff ff call c0023285 <free>

c002c24d: 83 c4 10 add esp,0x10

c002c250: 89 e8 mov eax,ebp

c002c252: 83 c4 1c add esp,0x1c

c002c255: 5b pop ebx

c002c256: 5e pop esi

c002c257: 5f pop edi

c002c258: 5d pop ebp

c002c259: c3 ret

c002c25a <inode\_reopen>:

c002c25a: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002c25e: 85 c0 test eax,eax

c002c260: 74 04 je c002c266 <inode\_reopen+0xc>

c002c262: 83 40 0c 01 add DWORD PTR [eax+0xc],0x1

c002c266: f3 c3 repz ret

c002c268 <inode\_open>:

c002c268: 56 push esi

c002c269: 53 push ebx

c002c26a: 83 ec 10 sub esp,0x10

c002c26d: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c002c271: 68 e0 b9 03 c0 push 0xc003b9e0

c002c276: e8 ac b7 ff ff call c0027a27 <list\_begin>

c002c27b: 89 c3 mov ebx,eax

c002c27d: 83 c4 10 add esp,0x10

c002c280: eb 23 jmp c002c2a5 <inode\_open+0x3d>

c002c282: 39 73 08 cmp DWORD PTR [ebx+0x8],esi

c002c285: 75 10 jne c002c297 <inode\_open+0x2f>

c002c287: 83 ec 0c sub esp,0xc

c002c28a: 53 push ebx

c002c28b: e8 ca ff ff ff call c002c25a <inode\_reopen>

c002c290: 83 c4 10 add esp,0x10

c002c293: 89 d8 mov eax,ebx

c002c295: eb 75 jmp c002c30c <inode\_open+0xa4>

c002c297: 83 ec 0c sub esp,0xc

c002c29a: 53 push ebx

c002c29b: e8 b7 b7 ff ff call c0027a57 <list\_next>

c002c2a0: 89 c3 mov ebx,eax

c002c2a2: 83 c4 10 add esp,0x10

c002c2a5: 83 ec 0c sub esp,0xc

c002c2a8: 68 e0 b9 03 c0 push 0xc003b9e0

c002c2ad: e8 eb b7 ff ff call c0027a9d <list\_end>

c002c2b2: 83 c4 10 add esp,0x10

c002c2b5: 39 c3 cmp ebx,eax

c002c2b7: 75 c9 jne c002c282 <inode\_open+0x1a>

c002c2b9: 83 ec 0c sub esp,0xc

c002c2bc: 68 18 02 00 00 push 0x218

c002c2c1: e8 2e 6e ff ff call c00230f4 <malloc>

c002c2c6: 89 c3 mov ebx,eax

c002c2c8: 83 c4 10 add esp,0x10

c002c2cb: 85 c0 test eax,eax

c002c2cd: 74 3d je c002c30c <inode\_open+0xa4>

c002c2cf: 83 ec 08 sub esp,0x8

c002c2d2: 50 push eax

c002c2d3: 68 e0 b9 03 c0 push 0xc003b9e0

c002c2d8: e8 8e bb ff ff call c0027e6b <list\_push\_front>

c002c2dd: 89 73 08 mov DWORD PTR [ebx+0x8],esi

c002c2e0: c7 43 0c 01 00 00 00 mov DWORD PTR [ebx+0xc],0x1

c002c2e7: c7 43 14 00 00 00 00 mov DWORD PTR [ebx+0x14],0x0

c002c2ee: c6 43 10 00 mov BYTE PTR [ebx+0x10],0x0

c002c2f2: 83 c4 0c add esp,0xc

c002c2f5: 8d 43 18 lea eax,[ebx+0x18]

c002c2f8: 50 push eax

c002c2f9: 56 push esi

c002c2fa: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c300: e8 d8 7e ff ff call c00241dd <block\_read>

c002c305: 83 c4 10 add esp,0x10

c002c308: 89 d8 mov eax,ebx

c002c30a: eb 00 jmp c002c30c <inode\_open+0xa4>

c002c30c: 83 c4 04 add esp,0x4

c002c30f: 5b pop ebx

c002c310: 5e pop esi

c002c311: c3 ret

c002c312 <inode\_get\_inumber>:

c002c312: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002c316: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

c002c319: c3 ret

c002c31a <inode\_close>:

c002c31a: 53 push ebx

c002c31b: 83 ec 08 sub esp,0x8

c002c31e: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002c322: 85 db test ebx,ebx

c002c324: 74 5e je c002c384 <inode\_close+0x6a>

c002c326: 8b 43 0c mov eax,DWORD PTR [ebx+0xc]

c002c329: 83 e8 01 sub eax,0x1

c002c32c: 89 43 0c mov DWORD PTR [ebx+0xc],eax

c002c32f: 85 c0 test eax,eax

c002c331: 75 51 jne c002c384 <inode\_close+0x6a>

c002c333: 83 ec 0c sub esp,0xc

c002c336: 53 push ebx

c002c337: e8 69 bb ff ff call c0027ea5 <list\_remove>

c002c33c: 83 c4 10 add esp,0x10

c002c33f: 80 7b 10 00 cmp BYTE PTR [ebx+0x10],0x0

c002c343: 74 33 je c002c378 <inode\_close+0x5e>

c002c345: 83 ec 08 sub esp,0x8

c002c348: 6a 01 push 0x1

c002c34a: ff 73 08 push DWORD PTR [ebx+0x8]

c002c34d: e8 7a f5 ff ff call c002b8cc <free\_map\_release>

c002c352: 83 c4 08 add esp,0x8

c002c355: 8b 53 1c mov edx,DWORD PTR [ebx+0x1c]

c002c358: 8d 8a ff 01 00 00 lea ecx,[edx+0x1ff]

c002c35e: 8d 82 fe 03 00 00 lea eax,[edx+0x3fe]

c002c364: 85 c9 test ecx,ecx

c002c366: 0f 49 c1 cmovns eax,ecx

c002c369: c1 f8 09 sar eax,0x9

c002c36c: 50 push eax

c002c36d: ff 73 18 push DWORD PTR [ebx+0x18]

c002c370: e8 57 f5 ff ff call c002b8cc <free\_map\_release>

c002c375: 83 c4 10 add esp,0x10

c002c378: 83 ec 0c sub esp,0xc

c002c37b: 53 push ebx

c002c37c: e8 04 6f ff ff call c0023285 <free>

c002c381: 83 c4 10 add esp,0x10

c002c384: 83 c4 08 add esp,0x8

c002c387: 5b pop ebx

c002c388: c3 ret

c002c389 <inode\_remove>:

c002c389: 83 ec 0c sub esp,0xc

c002c38c: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002c390: 85 c0 test eax,eax

c002c392: 75 21 jne c002c3b5 <inode\_remove+0x2c>

c002c394: 83 ec 0c sub esp,0xc

c002c397: 68 53 13 03 c0 push 0xc0031353

c002c39c: 68 83 ed 02 c0 push 0xc002ed83

c002c3a1: 68 3c ec 02 c0 push 0xc002ec3c

c002c3a6: 68 e2 00 00 00 push 0xe2

c002c3ab: 68 61 13 03 c0 push 0xc0031361

c002c3b0: e8 88 b5 ff ff call c002793d <debug\_panic>

c002c3b5: c6 40 10 01 mov BYTE PTR [eax+0x10],0x1

c002c3b9: 83 c4 0c add esp,0xc

c002c3bc: c3 ret

c002c3bd <inode\_read\_at>:

c002c3bd: 55 push ebp

c002c3be: 57 push edi

c002c3bf: 56 push esi

c002c3c0: 53 push ebx

c002c3c1: 83 ec 1c sub esp,0x1c

c002c3c4: 8b 6c 24 38 mov ebp,DWORD PTR [esp+0x38]

c002c3c8: 8b 7c 24 3c mov edi,DWORD PTR [esp+0x3c]

c002c3cc: 85 ed test ebp,ebp

c002c3ce: 0f 8e e6 00 00 00 jle c002c4ba <inode\_read\_at+0xfd>

c002c3d4: c7 04 24 00 00 00 00 mov DWORD PTR [esp],0x0

c002c3db: c7 44 24 04 00 00 00 mov DWORD PTR [esp+0x4],0x0

c002c3e2: 00

c002c3e3: 89 fa mov edx,edi

c002c3e5: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002c3e9: e8 37 fd ff ff call c002c125 <byte\_to\_sector>

c002c3ee: 89 c1 mov ecx,eax

c002c3f0: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c002c3f4: 89 f8 mov eax,edi

c002c3f6: c1 f8 1f sar eax,0x1f

c002c3f9: c1 e8 17 shr eax,0x17

c002c3fc: 8d 34 07 lea esi,[edi+eax\*1]

c002c3ff: 81 e6 ff 01 00 00 and esi,0x1ff

c002c405: 29 c6 sub esi,eax

c002c407: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002c40b: 8b 40 1c mov eax,DWORD PTR [eax+0x1c]

c002c40e: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002c412: 89 c3 mov ebx,eax

c002c414: 29 fb sub ebx,edi

c002c416: 39 eb cmp ebx,ebp

c002c418: 0f 4f dd cmovg ebx,ebp

c002c41b: 89 d8 mov eax,ebx

c002c41d: bb 00 02 00 00 mov ebx,0x200

c002c422: 29 f3 sub ebx,esi

c002c424: 39 d8 cmp eax,ebx

c002c426: 0f 4e d8 cmovle ebx,eax

c002c429: 85 db test ebx,ebx

c002c42b: 0f 8e 98 00 00 00 jle c002c4c9 <inode\_read\_at+0x10c>

c002c431: 85 f6 test esi,esi

c002c433: 75 25 jne c002c45a <inode\_read\_at+0x9d>

c002c435: 81 fb 00 02 00 00 cmp ebx,0x200

c002c43b: 75 1d jne c002c45a <inode\_read\_at+0x9d>

c002c43d: 83 ec 04 sub esp,0x4

c002c440: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c002c444: 03 44 24 38 add eax,DWORD PTR [esp+0x38]

c002c448: 50 push eax

c002c449: 51 push ecx

c002c44a: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c450: e8 88 7d ff ff call c00241dd <block\_read>

c002c455: 83 c4 10 add esp,0x10

c002c458: eb 4e jmp c002c4a8 <inode\_read\_at+0xeb>

c002c45a: 83 3c 24 00 cmp DWORD PTR [esp],0x0

c002c45e: 75 18 jne c002c478 <inode\_read\_at+0xbb>

c002c460: 83 ec 0c sub esp,0xc

c002c463: 68 00 02 00 00 push 0x200

c002c468: e8 87 6c ff ff call c00230f4 <malloc>

c002c46d: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

c002c471: 83 c4 10 add esp,0x10

c002c474: 85 c0 test eax,eax

c002c476: 74 51 je c002c4c9 <inode\_read\_at+0x10c>

c002c478: 83 ec 04 sub esp,0x4

c002c47b: ff 74 24 04 push DWORD PTR [esp+0x4]

c002c47f: ff 74 24 14 push DWORD PTR [esp+0x14]

c002c483: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c489: e8 4f 7d ff ff call c00241dd <block\_read>

c002c48e: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002c492: 03 44 24 44 add eax,DWORD PTR [esp+0x44]

c002c496: 03 74 24 10 add esi,DWORD PTR [esp+0x10]

c002c49a: 83 c4 0c add esp,0xc

c002c49d: 53 push ebx

c002c49e: 56 push esi

c002c49f: 50 push eax

c002c4a0: e8 62 a5 ff ff call c0026a07 <memcpy>

c002c4a5: 83 c4 10 add esp,0x10

c002c4a8: 29 dd sub ebp,ebx

c002c4aa: 01 df add edi,ebx

c002c4ac: 01 5c 24 04 add DWORD PTR [esp+0x4],ebx

c002c4b0: 85 ed test ebp,ebp

c002c4b2: 0f 8f 2b ff ff ff jg c002c3e3 <inode\_read\_at+0x26>

c002c4b8: eb 0f jmp c002c4c9 <inode\_read\_at+0x10c>

c002c4ba: c7 44 24 04 00 00 00 mov DWORD PTR [esp+0x4],0x0

c002c4c1: 00

c002c4c2: c7 04 24 00 00 00 00 mov DWORD PTR [esp],0x0

c002c4c9: 83 ec 0c sub esp,0xc

c002c4cc: ff 74 24 0c push DWORD PTR [esp+0xc]

c002c4d0: e8 b0 6d ff ff call c0023285 <free>

c002c4d5: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002c4d9: 83 c4 2c add esp,0x2c

c002c4dc: 5b pop ebx

c002c4dd: 5e pop esi

c002c4de: 5f pop edi

c002c4df: 5d pop ebp

c002c4e0: c3 ret

c002c4e1 <inode\_write\_at>:

c002c4e1: 55 push ebp

c002c4e2: 57 push edi

c002c4e3: 56 push esi

c002c4e4: 53 push ebx

c002c4e5: 83 ec 1c sub esp,0x1c

c002c4e8: 8b 6c 24 3c mov ebp,DWORD PTR [esp+0x3c]

c002c4ec: b8 00 00 00 00 mov eax,0x0

c002c4f1: 8b 54 24 30 mov edx,DWORD PTR [esp+0x30]

c002c4f5: 83 7a 14 00 cmp DWORD PTR [edx+0x14],0x0

c002c4f9: 0f 85 52 01 00 00 jne c002c651 <inode\_write\_at+0x170>

c002c4ff: 83 7c 24 38 00 cmp DWORD PTR [esp+0x38],0x0

c002c504: 0f 8e 25 01 00 00 jle c002c62f <inode\_write\_at+0x14e>

c002c50a: c7 04 24 00 00 00 00 mov DWORD PTR [esp],0x0

c002c511: c7 44 24 04 00 00 00 mov DWORD PTR [esp+0x4],0x0

c002c518: 00

c002c519: 89 ea mov edx,ebp

c002c51b: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002c51f: e8 01 fc ff ff call c002c125 <byte\_to\_sector>

c002c524: 89 c1 mov ecx,eax

c002c526: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

c002c52a: 89 e8 mov eax,ebp

c002c52c: c1 f8 1f sar eax,0x1f

c002c52f: c1 e8 17 shr eax,0x17

c002c532: 8d 74 05 00 lea esi,[ebp+eax\*1+0x0]

c002c536: 81 e6 ff 01 00 00 and esi,0x1ff

c002c53c: 29 c6 sub esi,eax

c002c53e: bf 00 02 00 00 mov edi,0x200

c002c543: 29 f7 sub edi,esi

c002c545: 8b 44 24 30 mov eax,DWORD PTR [esp+0x30]

c002c549: 8b 40 1c mov eax,DWORD PTR [eax+0x1c]

c002c54c: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c002c550: 89 c3 mov ebx,eax

c002c552: 29 eb sub ebx,ebp

c002c554: 3b 5c 24 38 cmp ebx,DWORD PTR [esp+0x38]

c002c558: 0f 4f 5c 24 38 cmovg ebx,DWORD PTR [esp+0x38]

c002c55d: 39 fb cmp ebx,edi

c002c55f: 0f 4f df cmovg ebx,edi

c002c562: 85 db test ebx,ebx

c002c564: 0f 8e d4 00 00 00 jle c002c63e <inode\_write\_at+0x15d>

c002c56a: 85 f6 test esi,esi

c002c56c: 75 28 jne c002c596 <inode\_write\_at+0xb5>

c002c56e: 81 fb 00 02 00 00 cmp ebx,0x200

c002c574: 75 20 jne c002c596 <inode\_write\_at+0xb5>

c002c576: 83 ec 04 sub esp,0x4

c002c579: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c002c57d: 03 44 24 38 add eax,DWORD PTR [esp+0x38]

c002c581: 50 push eax

c002c582: 51 push ecx

c002c583: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c589: e8 83 7c ff ff call c0024211 <block\_write>

c002c58e: 83 c4 10 add esp,0x10

c002c591: e9 82 00 00 00 jmp c002c618 <inode\_write\_at+0x137>

c002c596: 83 3c 24 00 cmp DWORD PTR [esp],0x0

c002c59a: 75 1c jne c002c5b8 <inode\_write\_at+0xd7>

c002c59c: 83 ec 0c sub esp,0xc

c002c59f: 68 00 02 00 00 push 0x200

c002c5a4: e8 4b 6b ff ff call c00230f4 <malloc>

c002c5a9: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

c002c5ad: 83 c4 10 add esp,0x10

c002c5b0: 85 c0 test eax,eax

c002c5b2: 0f 84 86 00 00 00 je c002c63e <inode\_write\_at+0x15d>

c002c5b8: 85 f6 test esi,esi

c002c5ba: 7f 04 jg c002c5c0 <inode\_write\_at+0xdf>

c002c5bc: 39 df cmp edi,ebx

c002c5be: 7e 1b jle c002c5db <inode\_write\_at+0xfa>

c002c5c0: 83 ec 04 sub esp,0x4

c002c5c3: ff 74 24 04 push DWORD PTR [esp+0x4]

c002c5c7: ff 74 24 10 push DWORD PTR [esp+0x10]

c002c5cb: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c5d1: e8 07 7c ff ff call c00241dd <block\_read>

c002c5d6: 83 c4 10 add esp,0x10

c002c5d9: eb 0f jmp c002c5ea <inode\_write\_at+0x109>

c002c5db: b9 80 00 00 00 mov ecx,0x80

c002c5e0: 8b 3c 24 mov edi,DWORD PTR [esp]

c002c5e3: b8 00 00 00 00 mov eax,0x0

c002c5e8: f3 ab rep stos DWORD PTR es:[edi],eax

c002c5ea: 8b 3c 24 mov edi,DWORD PTR [esp]

c002c5ed: 01 fe add esi,edi

c002c5ef: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002c5f3: 03 44 24 34 add eax,DWORD PTR [esp+0x34]

c002c5f7: 83 ec 04 sub esp,0x4

c002c5fa: 53 push ebx

c002c5fb: 50 push eax

c002c5fc: 56 push esi

c002c5fd: e8 05 a4 ff ff call c0026a07 <memcpy>

c002c602: 83 c4 0c add esp,0xc

c002c605: 57 push edi

c002c606: ff 74 24 10 push DWORD PTR [esp+0x10]

c002c60a: ff 35 48 ba 03 c0 push DWORD PTR ds:0xc003ba48

c002c610: e8 fc 7b ff ff call c0024211 <block\_write>

c002c615: 83 c4 10 add esp,0x10

c002c618: 29 5c 24 38 sub DWORD PTR [esp+0x38],ebx

c002c61c: 01 dd add ebp,ebx

c002c61e: 01 5c 24 04 add DWORD PTR [esp+0x4],ebx

c002c622: 83 7c 24 38 00 cmp DWORD PTR [esp+0x38],0x0

c002c627: 0f 8f ec fe ff ff jg c002c519 <inode\_write\_at+0x38>

c002c62d: eb 0f jmp c002c63e <inode\_write\_at+0x15d>

c002c62f: c7 44 24 04 00 00 00 mov DWORD PTR [esp+0x4],0x0

c002c636: 00

c002c637: c7 04 24 00 00 00 00 mov DWORD PTR [esp],0x0

c002c63e: 83 ec 0c sub esp,0xc

c002c641: ff 74 24 0c push DWORD PTR [esp+0xc]

c002c645: e8 3b 6c ff ff call c0023285 <free>

c002c64a: 83 c4 10 add esp,0x10

c002c64d: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002c651: 83 c4 1c add esp,0x1c

c002c654: 5b pop ebx

c002c655: 5e pop esi

c002c656: 5f pop edi

c002c657: 5d pop ebp

c002c658: c3 ret

c002c659 <inode\_deny\_write>:

c002c659: 83 ec 0c sub esp,0xc

c002c65c: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c002c660: 8b 42 14 mov eax,DWORD PTR [edx+0x14]

c002c663: 83 c0 01 add eax,0x1

c002c666: 89 42 14 mov DWORD PTR [edx+0x14],eax

c002c669: 3b 42 0c cmp eax,DWORD PTR [edx+0xc]

c002c66c: 7e 21 jle c002c68f <inode\_deny\_write+0x36>

c002c66e: 83 ec 0c sub esp,0xc

c002c671: 68 a0 13 03 c0 push 0xc00313a0

c002c676: 68 83 ed 02 c0 push 0xc002ed83

c002c67b: 68 18 ec 02 c0 push 0xc002ec18

c002c680: 68 a9 01 00 00 push 0x1a9

c002c685: 68 61 13 03 c0 push 0xc0031361

c002c68a: e8 ae b2 ff ff call c002793d <debug\_panic>

c002c68f: 83 c4 0c add esp,0xc

c002c692: c3 ret

c002c693 <inode\_allow\_write>:

c002c693: 83 ec 0c sub esp,0xc

c002c696: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c002c69a: 8b 42 14 mov eax,DWORD PTR [edx+0x14]

c002c69d: 85 c0 test eax,eax

c002c69f: 7f 21 jg c002c6c2 <inode\_allow\_write+0x2f>

c002c6a1: 83 ec 0c sub esp,0xc

c002c6a4: 68 83 13 03 c0 push 0xc0031383

c002c6a9: 68 83 ed 02 c0 push 0xc002ed83

c002c6ae: 68 04 ec 02 c0 push 0xc002ec04

c002c6b3: 68 b2 01 00 00 push 0x1b2

c002c6b8: 68 61 13 03 c0 push 0xc0031361

c002c6bd: e8 7b b2 ff ff call c002793d <debug\_panic>

c002c6c2: 3b 42 0c cmp eax,DWORD PTR [edx+0xc]

c002c6c5: 7e 21 jle c002c6e8 <inode\_allow\_write+0x55>

c002c6c7: 83 ec 0c sub esp,0xc

c002c6ca: 68 a0 13 03 c0 push 0xc00313a0

c002c6cf: 68 83 ed 02 c0 push 0xc002ed83

c002c6d4: 68 04 ec 02 c0 push 0xc002ec04

c002c6d9: 68 b3 01 00 00 push 0x1b3

c002c6de: 68 61 13 03 c0 push 0xc0031361

c002c6e3: e8 55 b2 ff ff call c002793d <debug\_panic>

c002c6e8: 83 e8 01 sub eax,0x1

c002c6eb: 89 42 14 mov DWORD PTR [edx+0x14],eax

c002c6ee: 83 c4 0c add esp,0xc

c002c6f1: c3 ret

c002c6f2 <inode\_length>:

c002c6f2: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

c002c6f6: 8b 40 1c mov eax,DWORD PTR [eax+0x1c]

c002c6f9: c3 ret

c002c6fa <fsutil\_ls>:

c002c6fa: 56 push esi

c002c6fb: 53 push ebx

c002c6fc: 83 ec 20 sub esp,0x20

c002c6ff: 68 c9 13 03 c0 push 0xc00313c9

c002c704: e8 47 cd ff ff call c0029450 <puts>

c002c709: e8 ff f6 ff ff call c002be0d <dir\_open\_root>

c002c70e: 83 c4 10 add esp,0x10

c002c711: 85 c0 test eax,eax

c002c713: 75 24 jne c002c739 <fsutil\_ls+0x3f>

c002c715: 68 e6 13 03 c0 push 0xc00313e6

c002c71a: 68 94 ec 02 c0 push 0xc002ec94

c002c71f: 6a 1f push 0x1f

c002c721: 68 fb 13 03 c0 push 0xc00313fb

c002c726: e8 12 b2 ff ff call c002793d <debug\_panic>

c002c72b: 83 ec 0c sub esp,0xc

c002c72e: 53 push ebx

c002c72f: e8 1c cd ff ff call c0029450 <puts>

c002c734: 83 c4 10 add esp,0x10

c002c737: eb 06 jmp c002c73f <fsutil\_ls+0x45>

c002c739: 89 c6 mov esi,eax

c002c73b: 8d 5c 24 01 lea ebx,[esp+0x1]

c002c73f: 83 ec 08 sub esp,0x8

c002c742: 53 push ebx

c002c743: 56 push esi

c002c744: e8 82 f9 ff ff call c002c0cb <dir\_readdir>

c002c749: 83 c4 10 add esp,0x10

c002c74c: 84 c0 test al,al

c002c74e: 75 db jne c002c72b <fsutil\_ls+0x31>

c002c750: 83 ec 0c sub esp,0xc

c002c753: 68 12 14 03 c0 push 0xc0031412

c002c758: e8 f3 cc ff ff call c0029450 <puts>

c002c75d: 83 c4 24 add esp,0x24

c002c760: 5b pop ebx

c002c761: 5e pop esi

c002c762: c3 ret

c002c763 <fsutil\_cat>:

c002c763: 57 push edi

c002c764: 56 push esi

c002c765: 53 push ebx

c002c766: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002c76a: 8b 70 04 mov esi,DWORD PTR [eax+0x4]

c002c76d: 83 ec 08 sub esp,0x8

c002c770: 56 push esi

c002c771: 68 ec 14 03 c0 push 0xc00314ec

c002c776: e8 4a 95 ff ff call c0025cc5 <printf>

c002c77b: 89 34 24 mov DWORD PTR [esp],esi

c002c77e: e8 db ef ff ff call c002b75e <filesys\_open>

c002c783: 83 c4 10 add esp,0x10

c002c786: 85 c0 test eax,eax

c002c788: 75 1a jne c002c7a4 <fsutil\_cat+0x41>

c002c78a: 83 ec 0c sub esp,0xc

c002c78d: 56 push esi

c002c78e: 68 22 14 03 c0 push 0xc0031422

c002c793: 68 88 ec 02 c0 push 0xc002ec88

c002c798: 6a 32 push 0x32

c002c79a: 68 fb 13 03 c0 push 0xc00313fb

c002c79f: e8 99 b1 ff ff call c002793d <debug\_panic>

c002c7a4: 89 c3 mov ebx,eax

c002c7a6: 83 ec 0c sub esp,0xc

c002c7a9: 6a 01 push 0x1

c002c7ab: e8 db 65 ff ff call c0022d8b <palloc\_get\_page>

c002c7b0: 89 c6 mov esi,eax

c002c7b2: 83 c4 10 add esp,0x10

c002c7b5: 83 ec 0c sub esp,0xc

c002c7b8: 53 push ebx

c002c7b9: e8 c4 f4 ff ff call c002bc82 <file\_tell>

c002c7be: 89 c7 mov edi,eax

c002c7c0: 83 c4 0c add esp,0xc

c002c7c3: 68 00 10 00 00 push 0x1000

c002c7c8: 56 push esi

c002c7c9: 53 push ebx

c002c7ca: e8 e3 f2 ff ff call c002bab2 <file\_read>

c002c7cf: 83 c4 10 add esp,0x10

c002c7d2: 85 c0 test eax,eax

c002c7d4: 74 0f je c002c7e5 <fsutil\_cat+0x82>

c002c7d6: 6a 01 push 0x1

c002c7d8: 50 push eax

c002c7d9: 56 push esi

c002c7da: 57 push edi

c002c7db: e8 0f 9c ff ff call c00263ef <hex\_dump>

c002c7e0: 83 c4 10 add esp,0x10

c002c7e3: eb d0 jmp c002c7b5 <fsutil\_cat+0x52>

c002c7e5: 83 ec 0c sub esp,0xc

c002c7e8: 56 push esi

c002c7e9: e8 d3 66 ff ff call c0022ec1 <palloc\_free\_page>

c002c7ee: 89 1c 24 mov DWORD PTR [esp],ebx

c002c7f1: e8 c7 f3 ff ff call c002bbbd <file\_close>

c002c7f6: 83 c4 10 add esp,0x10

c002c7f9: 5b pop ebx

c002c7fa: 5e pop esi

c002c7fb: 5f pop edi

c002c7fc: c3 ret

c002c7fd <fsutil\_rm>:

c002c7fd: 53 push ebx

c002c7fe: 83 ec 10 sub esp,0x10

c002c801: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c002c805: 8b 58 04 mov ebx,DWORD PTR [eax+0x4]

c002c808: 53 push ebx

c002c809: 68 32 14 03 c0 push 0xc0031432

c002c80e: e8 b2 94 ff ff call c0025cc5 <printf>

c002c813: 89 1c 24 mov DWORD PTR [esp],ebx

c002c816: e8 96 ef ff ff call c002b7b1 <filesys\_remove>

c002c81b: 83 c4 10 add esp,0x10

c002c81e: 84 c0 test al,al

c002c820: 75 1a jne c002c83c <fsutil\_rm+0x3f>

c002c822: 83 ec 0c sub esp,0xc

c002c825: 53 push ebx

c002c826: 68 44 14 03 c0 push 0xc0031444

c002c82b: 68 7c ec 02 c0 push 0xc002ec7c

c002c830: 6a 49 push 0x49

c002c832: 68 fb 13 03 c0 push 0xc00313fb

c002c837: e8 01 b1 ff ff call c002793d <debug\_panic>

c002c83c: 83 c4 08 add esp,0x8

c002c83f: 5b pop ebx

c002c840: c3 ret

c002c841 <fsutil\_extract>:

c002c841: 55 push ebp

c002c842: 57 push edi

c002c843: 56 push esi

c002c844: 53 push ebx

c002c845: 83 ec 38 sub esp,0x38

c002c848: 68 00 02 00 00 push 0x200

c002c84d: e8 a2 68 ff ff call c00230f4 <malloc>

c002c852: 89 c7 mov edi,eax

c002c854: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c002c858: c7 04 24 00 02 00 00 mov DWORD PTR [esp],0x200

c002c85f: e8 90 68 ff ff call c00230f4 <malloc>

c002c864: 89 c6 mov esi,eax

c002c866: 83 c4 10 add esp,0x10

c002c869: 85 ff test edi,edi

c002c86b: 74 04 je c002c871 <fsutil\_extract+0x30>

c002c86d: 85 c0 test eax,eax

c002c86f: 75 16 jne c002c887 <fsutil\_extract+0x46>

c002c871: 68 57 14 03 c0 push 0xc0031457

c002c876: 68 6c ec 02 c0 push 0xc002ec6c

c002c87b: 6a 5e push 0x5e

c002c87d: 68 fb 13 03 c0 push 0xc00313fb

c002c882: e8 b6 b0 ff ff call c002793d <debug\_panic>

c002c887: 83 ec 0c sub esp,0xc

c002c88a: 6a 02 push 0x2

c002c88c: e8 2a 78 ff ff call c00240bb <block\_get\_role>

c002c891: 89 c5 mov ebp,eax

c002c893: 83 c4 10 add esp,0x10

c002c896: 85 c0 test eax,eax

c002c898: 75 16 jne c002c8b0 <fsutil\_extract+0x6f>

c002c89a: 68 71 14 03 c0 push 0xc0031471

c002c89f: 68 6c ec 02 c0 push 0xc002ec6c

c002c8a4: 6a 63 push 0x63

c002c8a6: 68 fb 13 03 c0 push 0xc00313fb

c002c8ab: e8 8d b0 ff ff call c002793d <debug\_panic>

c002c8b0: 83 ec 0c sub esp,0xc

c002c8b3: 68 10 15 03 c0 push 0xc0031510

c002c8b8: e8 93 cb ff ff call c0029450 <puts>

c002c8bd: 83 c4 10 add esp,0x10

c002c8c0: a1 f4 b9 03 c0 mov eax,ds:0xc003b9f4

c002c8c5: 8d 50 01 lea edx,[eax+0x1]

c002c8c8: 89 15 f4 b9 03 c0 mov DWORD PTR ds:0xc003b9f4,edx

c002c8ce: 83 ec 04 sub esp,0x4

c002c8d1: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c002c8d5: 57 push edi

c002c8d6: 50 push eax

c002c8d7: 55 push ebp

c002c8d8: e8 00 79 ff ff call c00241dd <block\_read>

c002c8dd: 8d 44 24 2c lea eax,[esp+0x2c]

c002c8e1: 50 push eax

c002c8e2: 8d 44 24 2c lea eax,[esp+0x2c]

c002c8e6: 50 push eax

c002c8e7: 8d 44 24 2c lea eax,[esp+0x2c]

c002c8eb: 50 push eax

c002c8ec: 57 push edi

c002c8ed: e8 e7 ad ff ff call c00276d9 <ustar\_parse\_header>

c002c8f2: 83 c4 20 add esp,0x20

c002c8f5: 85 c0 test eax,eax

c002c8f7: 74 26 je c002c91f <fsutil\_extract+0xde>

c002c8f9: 83 ec 08 sub esp,0x8

c002c8fc: 50 push eax

c002c8fd: a1 f4 b9 03 c0 mov eax,ds:0xc003b9f4

c002c902: 83 e8 01 sub eax,0x1

c002c905: 50 push eax

c002c906: 68 54 15 03 c0 push 0xc0031554

c002c90b: 68 6c ec 02 c0 push 0xc002ec6c

c002c910: 68 89 00 00 00 push 0x89

c002c915: 68 fb 13 03 c0 push 0xc00313fb

c002c91a: e8 1e b0 ff ff call c002793d <debug\_panic>

c002c91f: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c002c923: 83 f8 ff cmp eax,0xffffffff

c002c926: 0f 84 2f 01 00 00 je c002ca5b <fsutil\_extract+0x21a>

c002c92c: 83 f8 35 cmp eax,0x35

c002c92f: 75 19 jne c002c94a <fsutil\_extract+0x109>

c002c931: 83 ec 08 sub esp,0x8

c002c934: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002c938: 68 8e 14 03 c0 push 0xc003148e

c002c93d: e8 83 93 ff ff call c0025cc5 <printf>

c002c942: 83 c4 10 add esp,0x10

c002c945: e9 76 ff ff ff jmp c002c8c0 <fsutil\_extract+0x7f>

c002c94a: 83 f8 30 cmp eax,0x30

c002c94d: 0f 85 6d ff ff ff jne c002c8c0 <fsutil\_extract+0x7f>

c002c953: 83 ec 08 sub esp,0x8

c002c956: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002c95a: 68 78 15 03 c0 push 0xc0031578

c002c95f: e8 61 93 ff ff call c0025cc5 <printf>

c002c964: 83 c4 08 add esp,0x8

c002c967: ff 74 24 24 push DWORD PTR [esp+0x24]

c002c96b: ff 74 24 20 push DWORD PTR [esp+0x20]

c002c96f: e8 5a ed ff ff call c002b6ce <filesys\_create>

c002c974: 83 c4 10 add esp,0x10

c002c977: 84 c0 test al,al

c002c979: 75 20 jne c002c99b <fsutil\_extract+0x15a>

c002c97b: 83 ec 0c sub esp,0xc

c002c97e: ff 74 24 20 push DWORD PTR [esp+0x20]

c002c982: 68 a5 14 03 c0 push 0xc00314a5

c002c987: 68 6c ec 02 c0 push 0xc002ec6c

c002c98c: 68 9a 00 00 00 push 0x9a

c002c991: 68 fb 13 03 c0 push 0xc00313fb

c002c996: e8 a2 af ff ff call c002793d <debug\_panic>

c002c99b: 83 ec 0c sub esp,0xc

c002c99e: ff 74 24 20 push DWORD PTR [esp+0x20]

c002c9a2: e8 b7 ed ff ff call c002b75e <filesys\_open>

c002c9a7: 89 c7 mov edi,eax

c002c9a9: 83 c4 10 add esp,0x10

c002c9ac: 85 c0 test eax,eax

c002c9ae: 74 0d je c002c9bd <fsutil\_extract+0x17c>

c002c9b0: 8b 5c 24 1c mov ebx,DWORD PTR [esp+0x1c]

c002c9b4: 85 db test ebx,ebx

c002c9b6: 7f 25 jg c002c9dd <fsutil\_extract+0x19c>

c002c9b8: e9 8d 00 00 00 jmp c002ca4a <fsutil\_extract+0x209>

c002c9bd: 83 ec 0c sub esp,0xc

c002c9c0: ff 74 24 20 push DWORD PTR [esp+0x20]

c002c9c4: 68 22 14 03 c0 push 0xc0031422

c002c9c9: 68 6c ec 02 c0 push 0xc002ec6c

c002c9ce: 68 9d 00 00 00 push 0x9d

c002c9d3: 68 fb 13 03 c0 push 0xc00313fb

c002c9d8: e8 60 af ff ff call c002793d <debug\_panic>

c002c9dd: 81 fb 00 02 00 00 cmp ebx,0x200

c002c9e3: b8 00 02 00 00 mov eax,0x200

c002c9e8: 0f 4f d8 cmovg ebx,eax

c002c9eb: a1 f4 b9 03 c0 mov eax,ds:0xc003b9f4

c002c9f0: 8d 50 01 lea edx,[eax+0x1]

c002c9f3: 89 15 f4 b9 03 c0 mov DWORD PTR ds:0xc003b9f4,edx

c002c9f9: 83 ec 04 sub esp,0x4

c002c9fc: 56 push esi

c002c9fd: 50 push eax

c002c9fe: 55 push ebp

c002c9ff: e8 d9 77 ff ff call c00241dd <block\_read>

c002ca04: 83 c4 0c add esp,0xc

c002ca07: 53 push ebx

c002ca08: 56 push esi

c002ca09: 57 push edi

c002ca0a: e8 e3 f0 ff ff call c002baf2 <file\_write>

c002ca0f: 83 c4 10 add esp,0x10

c002ca12: 39 c3 cmp ebx,eax

c002ca14: 74 24 je c002ca3a <fsutil\_extract+0x1f9>

c002ca16: 83 ec 08 sub esp,0x8

c002ca19: ff 74 24 24 push DWORD PTR [esp+0x24]

c002ca1d: ff 74 24 20 push DWORD PTR [esp+0x20]

c002ca21: 68 a0 15 03 c0 push 0xc00315a0

c002ca26: 68 6c ec 02 c0 push 0xc002ec6c

c002ca2b: 68 a8 00 00 00 push 0xa8

c002ca30: 68 fb 13 03 c0 push 0xc00313fb

c002ca35: e8 03 af ff ff call c002793d <debug\_panic>

c002ca3a: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002ca3e: 29 d8 sub eax,ebx

c002ca40: 89 c3 mov ebx,eax

c002ca42: 89 44 24 1c mov DWORD PTR [esp+0x1c],eax

c002ca46: 85 c0 test eax,eax

c002ca48: 7f 93 jg c002c9dd <fsutil\_extract+0x19c>

c002ca4a: 83 ec 0c sub esp,0xc

c002ca4d: 57 push edi

c002ca4e: e8 6a f1 ff ff call c002bbbd <file\_close>

c002ca53: 83 c4 10 add esp,0x10

c002ca56: e9 65 fe ff ff jmp c002c8c0 <fsutil\_extract+0x7f>

c002ca5b: 83 ec 0c sub esp,0xc

c002ca5e: 68 b7 14 03 c0 push 0xc00314b7

c002ca63: e8 e8 c9 ff ff call c0029450 <puts>

c002ca68: b9 80 00 00 00 mov ecx,0x80

c002ca6d: b8 00 00 00 00 mov eax,0x0

c002ca72: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

c002ca76: f3 ab rep stos DWORD PTR es:[edi],eax

c002ca78: 83 c4 0c add esp,0xc

c002ca7b: 8b 7c 24 10 mov edi,DWORD PTR [esp+0x10]

c002ca7f: 57 push edi

c002ca80: 6a 00 push 0x0

c002ca82: 55 push ebp

c002ca83: e8 89 77 ff ff call c0024211 <block\_write>

c002ca88: 83 c4 0c add esp,0xc

c002ca8b: 57 push edi

c002ca8c: 6a 01 push 0x1

c002ca8e: 55 push ebp

c002ca8f: e8 7d 77 ff ff call c0024211 <block\_write>

c002ca94: 89 34 24 mov DWORD PTR [esp],esi

c002ca97: e8 e9 67 ff ff call c0023285 <free>

c002ca9c: 89 3c 24 mov DWORD PTR [esp],edi

c002ca9f: e8 e1 67 ff ff call c0023285 <free>

c002caa4: 83 c4 3c add esp,0x3c

c002caa7: 5b pop ebx

c002caa8: 5e pop esi

c002caa9: 5f pop edi

c002caaa: 5d pop ebp

c002caab: c3 ret

c002caac <fsutil\_append>:

c002caac: 55 push ebp

c002caad: 57 push edi

c002caae: 56 push esi

c002caaf: 53 push ebx

c002cab0: 83 ec 24 sub esp,0x24

c002cab3: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

c002cab7: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

c002caba: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

c002cabe: 50 push eax

c002cabf: 68 cc 15 03 c0 push 0xc00315cc

c002cac4: e8 fc 91 ff ff call c0025cc5 <printf>

c002cac9: c7 04 24 00 02 00 00 mov DWORD PTR [esp],0x200

c002cad0: e8 1f 66 ff ff call c00230f4 <malloc>

c002cad5: 83 c4 10 add esp,0x10

c002cad8: 85 c0 test eax,eax

c002cada: 75 19 jne c002caf5 <fsutil\_append+0x49>

c002cadc: 68 d0 14 03 c0 push 0xc00314d0

c002cae1: 68 5c ec 02 c0 push 0xc002ec5c

c002cae6: 68 d6 00 00 00 push 0xd6

c002caeb: 68 fb 13 03 c0 push 0xc00313fb

c002caf0: e8 48 ae ff ff call c002793d <debug\_panic>

c002caf5: 89 c6 mov esi,eax

c002caf7: 83 ec 0c sub esp,0xc

c002cafa: ff 74 24 18 push DWORD PTR [esp+0x18]

c002cafe: e8 5b ec ff ff call c002b75e <filesys\_open>

c002cb03: 89 44 24 18 mov DWORD PTR [esp+0x18],eax

c002cb07: 83 c4 10 add esp,0x10

c002cb0a: 85 c0 test eax,eax

c002cb0c: 75 20 jne c002cb2e <fsutil\_append+0x82>

c002cb0e: 83 ec 0c sub esp,0xc

c002cb11: ff 74 24 18 push DWORD PTR [esp+0x18]

c002cb15: 68 22 14 03 c0 push 0xc0031422

c002cb1a: 68 5c ec 02 c0 push 0xc002ec5c

c002cb1f: 68 db 00 00 00 push 0xdb

c002cb24: 68 fb 13 03 c0 push 0xc00313fb

c002cb29: e8 0f ae ff ff call c002793d <debug\_panic>

c002cb2e: 83 ec 0c sub esp,0xc

c002cb31: ff 74 24 14 push DWORD PTR [esp+0x14]

c002cb35: e8 b2 f0 ff ff call c002bbec <file\_length>

c002cb3a: 89 c7 mov edi,eax

c002cb3c: c7 04 24 02 00 00 00 mov DWORD PTR [esp],0x2

c002cb43: e8 73 75 ff ff call c00240bb <block\_get\_role>

c002cb48: 89 c5 mov ebp,eax

c002cb4a: 83 c4 10 add esp,0x10

c002cb4d: 85 c0 test eax,eax

c002cb4f: 75 19 jne c002cb6a <fsutil\_append+0xbe>

c002cb51: 68 71 14 03 c0 push 0xc0031471

c002cb56: 68 5c ec 02 c0 push 0xc002ec5c

c002cb5b: 68 e1 00 00 00 push 0xe1

c002cb60: 68 fb 13 03 c0 push 0xc00313fb

c002cb65: e8 d3 ad ff ff call c002793d <debug\_panic>

c002cb6a: 56 push esi

c002cb6b: 57 push edi

c002cb6c: 6a 30 push 0x30

c002cb6e: ff 74 24 18 push DWORD PTR [esp+0x18]

c002cb72: e8 90 a9 ff ff call c0027507 <ustar\_make\_header>

c002cb77: 83 c4 10 add esp,0x10

c002cb7a: 84 c0 test al,al

c002cb7c: 75 20 jne c002cb9e <fsutil\_append+0xf2>

c002cb7e: 83 ec 0c sub esp,0xc

c002cb81: ff 74 24 18 push DWORD PTR [esp+0x18]

c002cb85: 68 04 16 03 c0 push 0xc0031604

c002cb8a: 68 5c ec 02 c0 push 0xc002ec5c

c002cb8f: 68 e5 00 00 00 push 0xe5

c002cb94: 68 fb 13 03 c0 push 0xc00313fb

c002cb99: e8 9f ad ff ff call c002793d <debug\_panic>

c002cb9e: a1 f0 b9 03 c0 mov eax,ds:0xc003b9f0

c002cba3: 8d 50 01 lea edx,[eax+0x1]

c002cba6: 89 15 f0 b9 03 c0 mov DWORD PTR ds:0xc003b9f0,edx

c002cbac: 83 ec 04 sub esp,0x4

c002cbaf: 56 push esi

c002cbb0: 50 push eax

c002cbb1: 55 push ebp

c002cbb2: e8 5a 76 ff ff call c0024211 <block\_write>

c002cbb7: 83 c4 10 add esp,0x10

c002cbba: 85 ff test edi,edi

c002cbbc: 0f 8e b4 00 00 00 jle c002cc76 <fsutil\_append+0x1ca>

c002cbc2: 81 ff 00 02 00 00 cmp edi,0x200

c002cbc8: bb 00 02 00 00 mov ebx,0x200

c002cbcd: 0f 4e df cmovle ebx,edi

c002cbd0: 83 ec 0c sub esp,0xc

c002cbd3: 55 push ebp

c002cbd4: e8 94 76 ff ff call c002426d <block\_size>

c002cbd9: 83 c4 10 add esp,0x10

c002cbdc: 3b 05 f0 b9 03 c0 cmp eax,DWORD PTR ds:0xc003b9f0

c002cbe2: 77 20 ja c002cc04 <fsutil\_append+0x158>

c002cbe4: 83 ec 0c sub esp,0xc

c002cbe7: ff 74 24 18 push DWORD PTR [esp+0x18]

c002cbeb: 68 28 16 03 c0 push 0xc0031628

c002cbf0: 68 5c ec 02 c0 push 0xc002ec5c

c002cbf5: 68 ed 00 00 00 push 0xed

c002cbfa: 68 fb 13 03 c0 push 0xc00313fb

c002cbff: e8 39 ad ff ff call c002793d <debug\_panic>

c002cc04: 83 ec 04 sub esp,0x4

c002cc07: 53 push ebx

c002cc08: 56 push esi

c002cc09: ff 74 24 14 push DWORD PTR [esp+0x14]

c002cc0d: e8 a0 ee ff ff call c002bab2 <file\_read>

c002cc12: 83 c4 10 add esp,0x10

c002cc15: 39 c3 cmp ebx,eax

c002cc17: 74 21 je c002cc3a <fsutil\_append+0x18e>

c002cc19: 83 ec 08 sub esp,0x8

c002cc1c: 57 push edi

c002cc1d: ff 74 24 18 push DWORD PTR [esp+0x18]

c002cc21: 68 4c 16 03 c0 push 0xc003164c

c002cc26: 68 5c ec 02 c0 push 0xc002ec5c

c002cc2b: 68 ef 00 00 00 push 0xef

c002cc30: 68 fb 13 03 c0 push 0xc00313fb

c002cc35: e8 03 ad ff ff call c002793d <debug\_panic>

c002cc3a: ba 00 02 00 00 mov edx,0x200

c002cc3f: 29 da sub edx,ebx

c002cc41: 8d 04 1e lea eax,[esi+ebx\*1]

c002cc44: 83 ec 04 sub esp,0x4

c002cc47: 52 push edx

c002cc48: 6a 00 push 0x0

c002cc4a: 50 push eax

c002cc4b: e8 c4 a2 ff ff call c0026f14 <memset>

c002cc50: a1 f0 b9 03 c0 mov eax,ds:0xc003b9f0

c002cc55: 8d 50 01 lea edx,[eax+0x1]

c002cc58: 89 15 f0 b9 03 c0 mov DWORD PTR ds:0xc003b9f0,edx

c002cc5e: 83 c4 0c add esp,0xc

c002cc61: 56 push esi

c002cc62: 50 push eax

c002cc63: 55 push ebp

c002cc64: e8 a8 75 ff ff call c0024211 <block\_write>

c002cc69: 29 df sub edi,ebx

c002cc6b: 83 c4 10 add esp,0x10

c002cc6e: 85 ff test edi,edi

c002cc70: 0f 8f 4c ff ff ff jg c002cbc2 <fsutil\_append+0x116>

c002cc76: b9 80 00 00 00 mov ecx,0x80

c002cc7b: b8 00 00 00 00 mov eax,0x0

c002cc80: 89 f7 mov edi,esi

c002cc82: f3 ab rep stos DWORD PTR es:[edi],eax

c002cc84: 83 ec 04 sub esp,0x4

c002cc87: 56 push esi

c002cc88: ff 35 f0 b9 03 c0 push DWORD PTR ds:0xc003b9f0

c002cc8e: 55 push ebp

c002cc8f: e8 7d 75 ff ff call c0024211 <block\_write>

c002cc94: 83 c4 0c add esp,0xc

c002cc97: 8d 46 01 lea eax,[esi+0x1]

c002cc9a: 50 push eax

c002cc9b: ff 35 f0 b9 03 c0 push DWORD PTR ds:0xc003b9f0

c002cca1: 55 push ebp

c002cca2: e8 6a 75 ff ff call c0024211 <block\_write>

c002cca7: 83 c4 04 add esp,0x4

c002ccaa: ff 74 24 14 push DWORD PTR [esp+0x14]

c002ccae: e8 0a ef ff ff call c002bbbd <file\_close>

c002ccb3: 89 34 24 mov DWORD PTR [esp],esi

c002ccb6: e8 ca 65 ff ff call c0023285 <free>

c002ccbb: 83 c4 2c add esp,0x2c

c002ccbe: 5b pop ebx

c002ccbf: 5e pop esi

c002ccc0: 5f pop edi

c002ccc1: 5d pop ebp

c002ccc2: c3 ret

c002ccc3 <frame\_table\_init>:

c002ccc3: 83 ec 18 sub esp,0x18

c002ccc6: 68 84 ba 03 c0 push 0xc003ba84

c002cccb: e8 14 ad ff ff call c00279e4 <list\_init>

c002ccd0: c7 04 24 60 ba 03 c0 mov DWORD PTR [esp],0xc003ba60

c002ccd7: e8 25 5a ff ff call c0022701 <lock\_init>

c002ccdc: 83 c4 1c add esp,0x1c

c002ccdf: c3 ret

c002cce0 <frame\_free>:

c002cce0: 56 push esi

c002cce1: 53 push ebx

c002cce2: 83 ec 10 sub esp,0x10

c002cce5: 8b 74 24 1c mov esi,DWORD PTR [esp+0x1c]

c002cce9: 68 60 ba 03 c0 push 0xc003ba60

c002ccee: e8 90 5a ff ff call c0022783 <lock\_acquire>

c002ccf3: c7 04 24 84 ba 03 c0 mov DWORD PTR [esp],0xc003ba84

c002ccfa: e8 28 ad ff ff call c0027a27 <list\_begin>

c002ccff: 89 c3 mov ebx,eax

c002cd01: 83 c4 10 add esp,0x10

c002cd04: eb 34 jmp c002cd3a <frame\_free+0x5a>

c002cd06: 39 73 f4 cmp DWORD PTR [ebx-0xc],esi

c002cd09: 75 21 jne c002cd2c <frame\_free+0x4c>

c002cd0b: 83 ec 0c sub esp,0xc

c002cd0e: 53 push ebx

c002cd0f: e8 91 b1 ff ff call c0027ea5 <list\_remove>

c002cd14: 83 eb 0c sub ebx,0xc

c002cd17: 89 1c 24 mov DWORD PTR [esp],ebx

c002cd1a: e8 66 65 ff ff call c0023285 <free>

c002cd1f: 89 34 24 mov DWORD PTR [esp],esi

c002cd22: e8 9a 61 ff ff call c0022ec1 <palloc\_free\_page>

c002cd27: 83 c4 10 add esp,0x10

c002cd2a: eb 22 jmp c002cd4e <frame\_free+0x6e>

c002cd2c: 83 ec 0c sub esp,0xc

c002cd2f: 53 push ebx

c002cd30: e8 22 ad ff ff call c0027a57 <list\_next>

c002cd35: 89 c3 mov ebx,eax

c002cd37: 83 c4 10 add esp,0x10

c002cd3a: 83 ec 0c sub esp,0xc

c002cd3d: 68 84 ba 03 c0 push 0xc003ba84

c002cd42: e8 56 ad ff ff call c0027a9d <list\_end>

c002cd47: 83 c4 10 add esp,0x10

c002cd4a: 39 c3 cmp ebx,eax

c002cd4c: 75 b8 jne c002cd06 <frame\_free+0x26>

c002cd4e: 83 ec 0c sub esp,0xc

c002cd51: 68 60 ba 03 c0 push 0xc003ba60

c002cd56: e8 78 5b ff ff call c00228d3 <lock\_release>

c002cd5b: 83 c4 14 add esp,0x14

c002cd5e: 5b pop ebx

c002cd5f: 5e pop esi

c002cd60: c3 ret

c002cd61 <frame\_add\_to\_table>:

c002cd61: 53 push ebx

c002cd62: 83 ec 14 sub esp,0x14

c002cd65: 6a 14 push 0x14

c002cd67: e8 88 63 ff ff call c00230f4 <malloc>

c002cd6c: 89 c3 mov ebx,eax

c002cd6e: 8b 44 24 20 mov eax,DWORD PTR [esp+0x20]

c002cd72: 89 03 mov DWORD PTR [ebx],eax

c002cd74: 8b 44 24 24 mov eax,DWORD PTR [esp+0x24]

c002cd78: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002cd7b: e8 6b 3e ff ff call c0020beb <thread\_current>

c002cd80: 89 43 08 mov DWORD PTR [ebx+0x8],eax

c002cd83: c7 04 24 60 ba 03 c0 mov DWORD PTR [esp],0xc003ba60

c002cd8a: e8 f4 59 ff ff call c0022783 <lock\_acquire>

c002cd8f: 83 c4 08 add esp,0x8

c002cd92: 83 c3 0c add ebx,0xc

c002cd95: 53 push ebx

c002cd96: 68 84 ba 03 c0 push 0xc003ba84

c002cd9b: e8 e8 b0 ff ff call c0027e88 <list\_push\_back>

c002cda0: c7 04 24 60 ba 03 c0 mov DWORD PTR [esp],0xc003ba60

c002cda7: e8 27 5b ff ff call c00228d3 <lock\_release>

c002cdac: 83 c4 18 add esp,0x18

c002cdaf: 5b pop ebx

c002cdb0: c3 ret

c002cdb1 <frame\_evict>:

c002cdb1: 57 push edi

c002cdb2: 56 push esi

c002cdb3: 53 push ebx

c002cdb4: 83 ec 0c sub esp,0xc

c002cdb7: 68 60 ba 03 c0 push 0xc003ba60

c002cdbc: e8 c2 59 ff ff call c0022783 <lock\_acquire>

c002cdc1: c7 04 24 84 ba 03 c0 mov DWORD PTR [esp],0xc003ba84

c002cdc8: e8 5a ac ff ff call c0027a27 <list\_begin>

c002cdcd: 89 c3 mov ebx,eax

c002cdcf: 83 c4 10 add esp,0x10

c002cdd2: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002cdd5: 80 78 0a 00 cmp BYTE PTR [eax+0xa],0x0

c002cdd9: 0f 85 aa 00 00 00 jne c002ce89 <frame\_evict+0xd8>

c002cddf: 8b 73 fc mov esi,DWORD PTR [ebx-0x4]

c002cde2: 83 ec 08 sub esp,0x8

c002cde5: ff 70 04 push DWORD PTR [eax+0x4]

c002cde8: ff 76 30 push DWORD PTR [esi+0x30]

c002cdeb: e8 7c d7 ff ff call c002a56c <pagedir\_is\_accessed>

c002cdf0: 83 c4 10 add esp,0x10

c002cdf3: 84 c0 test al,al

c002cdf5: 74 18 je c002ce0f <frame\_evict+0x5e>

c002cdf7: 83 ec 04 sub esp,0x4

c002cdfa: 6a 00 push 0x0

c002cdfc: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002cdff: ff 70 04 push DWORD PTR [eax+0x4]

c002ce02: ff 76 30 push DWORD PTR [esi+0x30]

c002ce05: e8 d8 d8 ff ff call c002a6e2 <pagedir\_set\_accessed>

c002ce0a: 83 c4 10 add esp,0x10

c002ce0d: eb 7a jmp c002ce89 <frame\_evict+0xd8>

c002ce0f: 83 ec 08 sub esp,0x8

c002ce12: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002ce15: ff 70 04 push DWORD PTR [eax+0x4]

c002ce18: ff 76 30 push DWORD PTR [esi+0x30]

c002ce1b: e8 1d d7 ff ff call c002a53d <pagedir\_is\_dirty>

c002ce20: 83 c4 10 add esp,0x10

c002ce23: 84 c0 test al,al

c002ce25: 75 0e jne c002ce35 <frame\_evict+0x84>

c002ce27: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002ce2a: 80 38 01 cmp BYTE PTR [eax],0x1

c002ce2d: 0f 85 8f 00 00 00 jne c002cec2 <frame\_evict+0x111>

c002ce33: eb 3b jmp c002ce70 <frame\_evict+0xbf>

c002ce35: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002ce38: 80 38 02 cmp BYTE PTR [eax],0x2

c002ce3b: 75 33 jne c002ce70 <frame\_evict+0xbf>

c002ce3d: 83 ec 0c sub esp,0xc

c002ce40: 68 20 ba 03 c0 push 0xc003ba20

c002ce45: e8 39 59 ff ff call c0022783 <lock\_acquire>

c002ce4a: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002ce4d: ff 70 10 push DWORD PTR [eax+0x10]

c002ce50: ff 70 14 push DWORD PTR [eax+0x14]

c002ce53: ff 73 f4 push DWORD PTR [ebx-0xc]

c002ce56: ff 70 0c push DWORD PTR [eax+0xc]

c002ce59: e8 b6 ec ff ff call c002bb14 <file\_write\_at>

c002ce5e: 83 c4 14 add esp,0x14

c002ce61: 68 20 ba 03 c0 push 0xc003ba20

c002ce66: e8 68 5a ff ff call c00228d3 <lock\_release>

c002ce6b: 83 c4 10 add esp,0x10

c002ce6e: eb 52 jmp c002cec2 <frame\_evict+0x111>

c002ce70: c6 00 01 mov BYTE PTR [eax],0x1

c002ce73: 8b 7b f8 mov edi,DWORD PTR [ebx-0x8]

c002ce76: 83 ec 0c sub esp,0xc

c002ce79: ff 73 f4 push DWORD PTR [ebx-0xc]

c002ce7c: e8 9e 05 00 00 call c002d41f <swap\_out>

c002ce81: 89 47 1c mov DWORD PTR [edi+0x1c],eax

c002ce84: 83 c4 10 add esp,0x10

c002ce87: eb 39 jmp c002cec2 <frame\_evict+0x111>

c002ce89: 83 ec 0c sub esp,0xc

c002ce8c: 53 push ebx

c002ce8d: e8 c5 ab ff ff call c0027a57 <list\_next>

c002ce92: 89 c3 mov ebx,eax

c002ce94: c7 04 24 84 ba 03 c0 mov DWORD PTR [esp],0xc003ba84

c002ce9b: e8 fd ab ff ff call c0027a9d <list\_end>

c002cea0: 83 c4 10 add esp,0x10

c002cea3: 39 c3 cmp ebx,eax

c002cea5: 0f 85 27 ff ff ff jne c002cdd2 <frame\_evict+0x21>

c002ceab: 83 ec 0c sub esp,0xc

c002ceae: 68 84 ba 03 c0 push 0xc003ba84

c002ceb3: e8 6f ab ff ff call c0027a27 <list\_begin>

c002ceb8: 89 c3 mov ebx,eax

c002ceba: 83 c4 10 add esp,0x10

c002cebd: e9 10 ff ff ff jmp c002cdd2 <frame\_evict+0x21>

c002cec2: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002cec5: c6 40 09 00 mov BYTE PTR [eax+0x9],0x0

c002cec9: 83 ec 0c sub esp,0xc

c002cecc: 8d 7b f4 lea edi,[ebx-0xc]

c002cecf: 53 push ebx

c002ced0: e8 d0 af ff ff call c0027ea5 <list\_remove>

c002ced5: 83 c4 08 add esp,0x8

c002ced8: 8b 43 f8 mov eax,DWORD PTR [ebx-0x8]

c002cedb: ff 70 04 push DWORD PTR [eax+0x4]

c002cede: ff 76 30 push DWORD PTR [esi+0x30]

c002cee1: e8 3c d7 ff ff call c002a622 <pagedir\_clear\_page>

c002cee6: 83 c4 04 add esp,0x4

c002cee9: ff 73 f4 push DWORD PTR [ebx-0xc]

c002ceec: e8 d0 5f ff ff call c0022ec1 <palloc\_free\_page>

c002cef1: 89 3c 24 mov DWORD PTR [esp],edi

c002cef4: e8 8c 63 ff ff call c0023285 <free>

c002cef9: 83 c4 04 add esp,0x4

c002cefc: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002cf00: e8 86 5e ff ff call c0022d8b <palloc\_get\_page>

c002cf05: 83 c4 10 add esp,0x10

c002cf08: 5b pop ebx

c002cf09: 5e pop esi

c002cf0a: 5f pop edi

c002cf0b: c3 ret

c002cf0c <frame\_alloc>:

c002cf0c: 56 push esi

c002cf0d: 53 push ebx

c002cf0e: 83 ec 04 sub esp,0x4

c002cf11: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002cf15: b8 00 00 00 00 mov eax,0x0

c002cf1a: f7 c6 04 00 00 00 test esi,0x4

c002cf20: 74 56 je c002cf78 <frame\_alloc+0x6c>

c002cf22: 83 ec 0c sub esp,0xc

c002cf25: 56 push esi

c002cf26: e8 60 5e ff ff call c0022d8b <palloc\_get\_page>

c002cf2b: 89 c3 mov ebx,eax

c002cf2d: 83 c4 10 add esp,0x10

c002cf30: 85 c0 test eax,eax

c002cf32: 74 14 je c002cf48 <frame\_alloc+0x3c>

c002cf34: 83 ec 08 sub esp,0x8

c002cf37: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002cf3b: 50 push eax

c002cf3c: e8 20 fe ff ff call c002cd61 <frame\_add\_to\_table>

c002cf41: 83 c4 10 add esp,0x10

c002cf44: 89 d8 mov eax,ebx

c002cf46: eb 30 jmp c002cf78 <frame\_alloc+0x6c>

c002cf48: 83 ec 0c sub esp,0xc

c002cf4b: 56 push esi

c002cf4c: e8 60 fe ff ff call c002cdb1 <frame\_evict>

c002cf51: 89 c3 mov ebx,eax

c002cf53: c7 04 24 60 ba 03 c0 mov DWORD PTR [esp],0xc003ba60

c002cf5a: e8 74 59 ff ff call c00228d3 <lock\_release>

c002cf5f: 83 c4 10 add esp,0x10

c002cf62: 85 db test ebx,ebx

c002cf64: 74 e2 je c002cf48 <frame\_alloc+0x3c>

c002cf66: 83 ec 08 sub esp,0x8

c002cf69: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002cf6d: 53 push ebx

c002cf6e: e8 ee fd ff ff call c002cd61 <frame\_add\_to\_table>

c002cf73: 83 c4 10 add esp,0x10

c002cf76: 89 d8 mov eax,ebx

c002cf78: 83 c4 04 add esp,0x4

c002cf7b: 5b pop ebx

c002cf7c: 5e pop esi

c002cf7d: c3 ret

c002cf7e <page\_less\_func>:

c002cf7e: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

c002cf82: 8b 54 24 04 mov edx,DWORD PTR [esp+0x4]

c002cf86: 8b 40 e4 mov eax,DWORD PTR [eax-0x1c]

c002cf89: 39 42 e4 cmp DWORD PTR [edx-0x1c],eax

c002cf8c: 0f 92 c0 setb al

c002cf8f: c3 ret

c002cf90 <page\_hash\_func>:

c002cf90: 83 ec 18 sub esp,0x18

c002cf93: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002cf97: ff 70 e4 push DWORD PTR [eax-0x1c]

c002cf9a: e8 1f c3 ff ff call c00292be <hash\_int>

c002cf9f: 83 c4 1c add esp,0x1c

c002cfa2: c3 ret

c002cfa3 <page\_action\_func>:

c002cfa3: 57 push edi

c002cfa4: 56 push esi

c002cfa5: 53 push ebx

c002cfa6: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002cfaa: 8d 73 e0 lea esi,[ebx-0x20]

c002cfad: 80 7b e9 00 cmp BYTE PTR [ebx-0x17],0x0

c002cfb1: 74 33 je c002cfe6 <page\_action\_func+0x43>

c002cfb3: 8b 7b e4 mov edi,DWORD PTR [ebx-0x1c]

c002cfb6: e8 30 3c ff ff call c0020beb <thread\_current>

c002cfbb: 83 ec 08 sub esp,0x8

c002cfbe: 57 push edi

c002cfbf: ff 70 30 push DWORD PTR [eax+0x30]

c002cfc2: e8 e1 d4 ff ff call c002a4a8 <pagedir\_get\_page>

c002cfc7: 89 04 24 mov DWORD PTR [esp],eax

c002cfca: e8 11 fd ff ff call c002cce0 <frame\_free>

c002cfcf: 8b 5b e4 mov ebx,DWORD PTR [ebx-0x1c]

c002cfd2: e8 14 3c ff ff call c0020beb <thread\_current>

c002cfd7: 83 c4 08 add esp,0x8

c002cfda: 53 push ebx

c002cfdb: ff 70 30 push DWORD PTR [eax+0x30]

c002cfde: e8 3f d6 ff ff call c002a622 <pagedir\_clear\_page>

c002cfe3: 83 c4 10 add esp,0x10

c002cfe6: 83 ec 0c sub esp,0xc

c002cfe9: 56 push esi

c002cfea: e8 96 62 ff ff call c0023285 <free>

c002cfef: 83 c4 10 add esp,0x10

c002cff2: 5b pop ebx

c002cff3: 5e pop esi

c002cff4: 5f pop edi

c002cff5: c3 ret

c002cff6 <page\_table\_init>:

c002cff6: 83 ec 0c sub esp,0xc

c002cff9: 6a 00 push 0x0

c002cffb: 68 7e cf 02 c0 push 0xc002cf7e

c002d000: 68 90 cf 02 c0 push 0xc002cf90

c002d005: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002d009: e8 b9 be ff ff call c0028ec7 <hash\_init>

c002d00e: 83 c4 1c add esp,0x1c

c002d011: c3 ret

c002d012 <page\_table\_destroy>:

c002d012: 83 ec 14 sub esp,0x14

c002d015: 68 a3 cf 02 c0 push 0xc002cfa3

c002d01a: ff 74 24 1c push DWORD PTR [esp+0x1c]

c002d01e: e8 fe be ff ff call c0028f21 <hash\_destroy>

c002d023: 83 c4 1c add esp,0x1c

c002d026: c3 ret

c002d027 <get\_spte>:

c002d027: 83 ec 3c sub esp,0x3c

c002d02a: 8b 44 24 40 mov eax,DWORD PTR [esp+0x40]

c002d02e: 25 00 f0 ff ff and eax,0xfffff000

c002d033: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

c002d037: e8 af 3b ff ff call c0020beb <thread\_current>

c002d03c: 83 ec 08 sub esp,0x8

c002d03f: 8d 54 24 30 lea edx,[esp+0x30]

c002d043: 52 push edx

c002d044: 83 c0 78 add eax,0x78

c002d047: 50 push eax

c002d048: e8 a5 bf ff ff call c0028ff2 <hash\_find>

c002d04d: 83 c4 10 add esp,0x10

c002d050: 85 c0 test eax,eax

c002d052: 74 05 je c002d059 <get\_spte+0x32>

c002d054: 83 e8 20 sub eax,0x20

c002d057: eb 05 jmp c002d05e <get\_spte+0x37>

c002d059: b8 00 00 00 00 mov eax,0x0

c002d05e: 83 c4 3c add esp,0x3c

c002d061: c3 ret

c002d062 <load\_swap>:

c002d062: 57 push edi

c002d063: 56 push esi

c002d064: 53 push ebx

c002d065: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002d069: 83 ec 08 sub esp,0x8

c002d06c: 53 push ebx

c002d06d: 6a 04 push 0x4

c002d06f: e8 98 fe ff ff call c002cf0c <frame\_alloc>

c002d074: 83 c4 10 add esp,0x10

c002d077: be 00 00 00 00 mov esi,0x0

c002d07c: 85 c0 test eax,eax

c002d07e: 74 3f je c002d0bf <load\_swap+0x5d>

c002d080: 89 c7 mov edi,eax

c002d082: 83 ec 04 sub esp,0x4

c002d085: 0f b6 43 08 movzx eax,BYTE PTR [ebx+0x8]

c002d089: 50 push eax

c002d08a: 57 push edi

c002d08b: ff 73 04 push DWORD PTR [ebx+0x4]

c002d08e: e8 d1 cb ff ff call c0029c64 <install\_page>

c002d093: 89 c6 mov esi,eax

c002d095: 83 c4 10 add esp,0x10

c002d098: 84 c0 test al,al

c002d09a: 75 0e jne c002d0aa <load\_swap+0x48>

c002d09c: 83 ec 0c sub esp,0xc

c002d09f: 57 push edi

c002d0a0: e8 3b fc ff ff call c002cce0 <frame\_free>

c002d0a5: 83 c4 10 add esp,0x10

c002d0a8: eb 15 jmp c002d0bf <load\_swap+0x5d>

c002d0aa: 83 ec 08 sub esp,0x8

c002d0ad: ff 73 04 push DWORD PTR [ebx+0x4]

c002d0b0: ff 73 1c push DWORD PTR [ebx+0x1c]

c002d0b3: e8 1e 04 00 00 call c002d4d6 <swap\_in>

c002d0b8: c6 43 09 01 mov BYTE PTR [ebx+0x9],0x1

c002d0bc: 83 c4 10 add esp,0x10

c002d0bf: 89 f0 mov eax,esi

c002d0c1: 5b pop ebx

c002d0c2: 5e pop esi

c002d0c3: 5f pop edi

c002d0c4: c3 ret

c002d0c5 <load\_file>:

c002d0c5: 57 push edi

c002d0c6: 56 push esi

c002d0c7: 53 push ebx

c002d0c8: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002d0cc: 83 7b 14 01 cmp DWORD PTR [ebx+0x14],0x1

c002d0d0: 19 c0 sbb eax,eax

c002d0d2: 83 e0 02 and eax,0x2

c002d0d5: 83 c0 04 add eax,0x4

c002d0d8: 83 ec 08 sub esp,0x8

c002d0db: 53 push ebx

c002d0dc: 50 push eax

c002d0dd: e8 2a fe ff ff call c002cf0c <frame\_alloc>

c002d0e2: 83 c4 10 add esp,0x10

c002d0e5: 85 c0 test eax,eax

c002d0e7: 0f 84 9c 00 00 00 je c002d189 <load\_file+0xc4>

c002d0ed: 89 c6 mov esi,eax

c002d0ef: 83 7b 14 00 cmp DWORD PTR [ebx+0x14],0x0

c002d0f3: 74 66 je c002d15b <load\_file+0x96>

c002d0f5: 83 ec 0c sub esp,0xc

c002d0f8: 68 20 ba 03 c0 push 0xc003ba20

c002d0fd: e8 81 56 ff ff call c0022783 <lock\_acquire>

c002d102: 8b 7b 14 mov edi,DWORD PTR [ebx+0x14]

c002d105: ff 73 10 push DWORD PTR [ebx+0x10]

c002d108: 57 push edi

c002d109: 56 push esi

c002d10a: ff 73 0c push DWORD PTR [ebx+0xc]

c002d10d: e8 c2 e9 ff ff call c002bad4 <file\_read\_at>

c002d112: 83 c4 20 add esp,0x20

c002d115: 39 c7 cmp edi,eax

c002d117: 74 1f je c002d138 <load\_file+0x73>

c002d119: 83 ec 0c sub esp,0xc

c002d11c: 68 20 ba 03 c0 push 0xc003ba20

c002d121: e8 ad 57 ff ff call c00228d3 <lock\_release>

c002d126: 89 34 24 mov DWORD PTR [esp],esi

c002d129: e8 b2 fb ff ff call c002cce0 <frame\_free>

c002d12e: 83 c4 10 add esp,0x10

c002d131: bf 00 00 00 00 mov edi,0x0

c002d136: eb 56 jmp c002d18e <load\_file+0xc9>

c002d138: 83 ec 0c sub esp,0xc

c002d13b: 68 20 ba 03 c0 push 0xc003ba20

c002d140: e8 8e 57 ff ff call c00228d3 <lock\_release>

c002d145: 89 f0 mov eax,esi

c002d147: 03 43 14 add eax,DWORD PTR [ebx+0x14]

c002d14a: 83 c4 0c add esp,0xc

c002d14d: ff 73 18 push DWORD PTR [ebx+0x18]

c002d150: 6a 00 push 0x0

c002d152: 50 push eax

c002d153: e8 bc 9d ff ff call c0026f14 <memset>

c002d158: 83 c4 10 add esp,0x10

c002d15b: 83 ec 04 sub esp,0x4

c002d15e: 0f b6 43 08 movzx eax,BYTE PTR [ebx+0x8]

c002d162: 50 push eax

c002d163: 56 push esi

c002d164: ff 73 04 push DWORD PTR [ebx+0x4]

c002d167: e8 f8 ca ff ff call c0029c64 <install\_page>

c002d16c: 89 c7 mov edi,eax

c002d16e: 83 c4 10 add esp,0x10

c002d171: 84 c0 test al,al

c002d173: 75 0e jne c002d183 <load\_file+0xbe>

c002d175: 83 ec 0c sub esp,0xc

c002d178: 56 push esi

c002d179: e8 62 fb ff ff call c002cce0 <frame\_free>

c002d17e: 83 c4 10 add esp,0x10

c002d181: eb 0b jmp c002d18e <load\_file+0xc9>

c002d183: c6 43 09 01 mov BYTE PTR [ebx+0x9],0x1

c002d187: eb 05 jmp c002d18e <load\_file+0xc9>

c002d189: bf 00 00 00 00 mov edi,0x0

c002d18e: 89 f8 mov eax,edi

c002d190: 5b pop ebx

c002d191: 5e pop esi

c002d192: 5f pop edi

c002d193: c3 ret

c002d194 <load\_page>:

c002d194: 83 ec 0c sub esp,0xc

c002d197: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

c002d19b: c6 42 0a 01 mov BYTE PTR [edx+0xa],0x1

c002d19f: b8 00 00 00 00 mov eax,0x0

c002d1a4: 80 7a 09 00 cmp BYTE PTR [edx+0x9],0x0

c002d1a8: 75 40 jne c002d1ea <load\_page+0x56>

c002d1aa: 0f b6 02 movzx eax,BYTE PTR [edx]

c002d1ad: 3c 01 cmp al,0x1

c002d1af: 74 18 je c002d1c9 <load\_page+0x35>

c002d1b1: 3c 01 cmp al,0x1

c002d1b3: 72 06 jb c002d1bb <load\_page+0x27>

c002d1b5: 3c 02 cmp al,0x2

c002d1b7: 74 1e je c002d1d7 <load\_page+0x43>

c002d1b9: eb 2a jmp c002d1e5 <load\_page+0x51>

c002d1bb: 83 ec 0c sub esp,0xc

c002d1be: 52 push edx

c002d1bf: e8 01 ff ff ff call c002d0c5 <load\_file>

c002d1c4: 83 c4 10 add esp,0x10

c002d1c7: eb 21 jmp c002d1ea <load\_page+0x56>

c002d1c9: 83 ec 0c sub esp,0xc

c002d1cc: 52 push edx

c002d1cd: e8 90 fe ff ff call c002d062 <load\_swap>

c002d1d2: 83 c4 10 add esp,0x10

c002d1d5: eb 13 jmp c002d1ea <load\_page+0x56>

c002d1d7: 83 ec 0c sub esp,0xc

c002d1da: 52 push edx

c002d1db: e8 e5 fe ff ff call c002d0c5 <load\_file>

c002d1e0: 83 c4 10 add esp,0x10

c002d1e3: eb 05 jmp c002d1ea <load\_page+0x56>

c002d1e5: b8 00 00 00 00 mov eax,0x0

c002d1ea: 83 c4 0c add esp,0xc

c002d1ed: c3 ret

c002d1ee <add\_file\_to\_page\_table>:

c002d1ee: 56 push esi

c002d1ef: 53 push ebx

c002d1f0: 83 ec 10 sub esp,0x10

c002d1f3: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

c002d1f7: 6a 28 push 0x28

c002d1f9: e8 f6 5e ff ff call c00230f4 <malloc>

c002d1fe: 89 c3 mov ebx,eax

c002d200: 83 c4 10 add esp,0x10

c002d203: b8 00 00 00 00 mov eax,0x0

c002d208: 85 db test ebx,ebx

c002d20a: 74 50 je c002d25c <add\_file\_to\_page\_table+

0x6e>

c002d20c: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002d210: 89 43 0c mov DWORD PTR [ebx+0xc],eax

c002d213: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002d217: 89 43 10 mov DWORD PTR [ebx+0x10],eax

c002d21a: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c002d21e: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002d221: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002d225: 89 43 14 mov DWORD PTR [ebx+0x14],eax

c002d228: 8b 44 24 20 mov eax,DWORD PTR [esp+0x20]

c002d22c: 89 43 18 mov DWORD PTR [ebx+0x18],eax

c002d22f: 89 f0 mov eax,esi

c002d231: 88 43 08 mov BYTE PTR [ebx+0x8],al

c002d234: c6 43 09 00 mov BYTE PTR [ebx+0x9],0x0

c002d238: c6 03 00 mov BYTE PTR [ebx],0x0

c002d23b: c6 43 0a 00 mov BYTE PTR [ebx+0xa],0x0

c002d23f: e8 a7 39 ff ff call c0020beb <thread\_current>

c002d244: 83 ec 08 sub esp,0x8

c002d247: 83 c3 20 add ebx,0x20

c002d24a: 53 push ebx

c002d24b: 83 c0 78 add eax,0x78

c002d24e: 50 push eax

c002d24f: e8 fa bc ff ff call c0028f4e <hash\_insert>

c002d254: 83 c4 10 add esp,0x10

c002d257: 85 c0 test eax,eax

c002d259: 0f 94 c0 sete al

c002d25c: 83 c4 04 add esp,0x4

c002d25f: 5b pop ebx

c002d260: 5e pop esi

c002d261: c3 ret

c002d262 <add\_mmap\_to\_page\_table>:

c002d262: 56 push esi

c002d263: 53 push ebx

c002d264: 83 ec 10 sub esp,0x10

c002d267: 6a 28 push 0x28

c002d269: e8 86 5e ff ff call c00230f4 <malloc>

c002d26e: 83 c4 10 add esp,0x10

c002d271: be 00 00 00 00 mov esi,0x0

c002d276: 85 c0 test eax,eax

c002d278: 74 78 je c002d2f2 <add\_mmap\_to\_page\_table+

0x90>

c002d27a: 89 c3 mov ebx,eax

c002d27c: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

c002d280: 89 43 0c mov DWORD PTR [ebx+0xc],eax

c002d283: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

c002d287: 89 43 10 mov DWORD PTR [ebx+0x10],eax

c002d28a: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

c002d28e: 89 43 04 mov DWORD PTR [ebx+0x4],eax

c002d291: 8b 44 24 1c mov eax,DWORD PTR [esp+0x1c]

c002d295: 89 43 14 mov DWORD PTR [ebx+0x14],eax

c002d298: 8b 44 24 20 mov eax,DWORD PTR [esp+0x20]

c002d29c: 89 43 18 mov DWORD PTR [ebx+0x18],eax

c002d29f: c6 43 09 00 mov BYTE PTR [ebx+0x9],0x0

c002d2a3: c6 03 02 mov BYTE PTR [ebx],0x2

c002d2a6: c6 43 08 01 mov BYTE PTR [ebx+0x8],0x1

c002d2aa: c6 43 0a 00 mov BYTE PTR [ebx+0xa],0x0

c002d2ae: 83 ec 0c sub esp,0xc

c002d2b1: 53 push ebx

c002d2b2: e8 21 cb ff ff call c0029dd8 <process\_add\_mmap>

c002d2b7: 89 c6 mov esi,eax

c002d2b9: 83 c4 10 add esp,0x10

c002d2bc: 84 c0 test al,al

c002d2be: 75 0e jne c002d2ce <add\_mmap\_to\_page\_table+

0x6c>

c002d2c0: 83 ec 0c sub esp,0xc

c002d2c3: 53 push ebx

c002d2c4: e8 bc 5f ff ff call c0023285 <free>

c002d2c9: 83 c4 10 add esp,0x10

c002d2cc: eb 24 jmp c002d2f2 <add\_mmap\_to\_page\_table+

0x90>

c002d2ce: e8 18 39 ff ff call c0020beb <thread\_current>

c002d2d3: 83 ec 08 sub esp,0x8

c002d2d6: 8d 53 20 lea edx,[ebx+0x20]

c002d2d9: 52 push edx

c002d2da: 83 c0 78 add eax,0x78

c002d2dd: 50 push eax

c002d2de: e8 6b bc ff ff call c0028f4e <hash\_insert>

c002d2e3: 83 c4 10 add esp,0x10

c002d2e6: 85 c0 test eax,eax

c002d2e8: 74 08 je c002d2f2 <add\_mmap\_to\_page\_table+

0x90>

c002d2ea: c6 03 03 mov BYTE PTR [ebx],0x3

c002d2ed: be 00 00 00 00 mov esi,0x0

c002d2f2: 89 f0 mov eax,esi

c002d2f4: 83 c4 04 add esp,0x4

c002d2f7: 5b pop ebx

c002d2f8: 5e pop esi

c002d2f9: c3 ret

c002d2fa <grow\_stack>:

c002d2fa: 57 push edi

c002d2fb: 56 push esi

c002d2fc: 53 push ebx

c002d2fd: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

c002d301: 81 e3 00 f0 ff ff and ebx,0xfffff000

c002d307: b8 00 00 00 c0 mov eax,0xc0000000

c002d30c: 29 d8 sub eax,ebx

c002d30e: bf 00 00 00 00 mov edi,0x0

c002d313: 3d 00 00 80 00 cmp eax,0x800000

c002d318: 0f 87 a7 00 00 00 ja c002d3c5 <grow\_stack+0xcb>

c002d31e: 83 ec 0c sub esp,0xc

c002d321: 6a 28 push 0x28

c002d323: e8 cc 5d ff ff call c00230f4 <malloc>

c002d328: 89 c6 mov esi,eax

c002d32a: 83 c4 10 add esp,0x10

c002d32d: 85 c0 test eax,eax

c002d32f: 0f 84 90 00 00 00 je c002d3c5 <grow\_stack+0xcb>

c002d335: 89 58 04 mov DWORD PTR [eax+0x4],ebx

c002d338: c6 40 09 01 mov BYTE PTR [eax+0x9],0x1

c002d33c: c6 40 08 01 mov BYTE PTR [eax+0x8],0x1

c002d340: c6 00 01 mov BYTE PTR [eax],0x1

c002d343: c6 40 0a 01 mov BYTE PTR [eax+0xa],0x1

c002d347: 83 ec 08 sub esp,0x8

c002d34a: 50 push eax

c002d34b: 6a 04 push 0x4

c002d34d: e8 ba fb ff ff call c002cf0c <frame\_alloc>

c002d352: 89 c3 mov ebx,eax

c002d354: 83 c4 10 add esp,0x10

c002d357: 85 c0 test eax,eax

c002d359: 75 0e jne c002d369 <grow\_stack+0x6f>

c002d35b: 83 ec 0c sub esp,0xc

c002d35e: 56 push esi

c002d35f: e8 21 5f ff ff call c0023285 <free>

c002d364: 83 c4 10 add esp,0x10

c002d367: eb 5c jmp c002d3c5 <grow\_stack+0xcb>

c002d369: 83 ec 04 sub esp,0x4

c002d36c: 0f b6 46 08 movzx eax,BYTE PTR [esi+0x8]

c002d370: 50 push eax

c002d371: 53 push ebx

c002d372: ff 76 04 push DWORD PTR [esi+0x4]

c002d375: e8 ea c8 ff ff call c0029c64 <install\_page>

c002d37a: 89 c7 mov edi,eax

c002d37c: 83 c4 10 add esp,0x10

c002d37f: 84 c0 test al,al

c002d381: 75 16 jne c002d399 <grow\_stack+0x9f>

c002d383: 83 ec 0c sub esp,0xc

c002d386: 56 push esi

c002d387: e8 f9 5e ff ff call c0023285 <free>

c002d38c: 89 1c 24 mov DWORD PTR [esp],ebx

c002d38f: e8 4c f9 ff ff call c002cce0 <frame\_free>

c002d394: 83 c4 10 add esp,0x10

c002d397: eb 2c jmp c002d3c5 <grow\_stack+0xcb>

c002d399: e8 23 43 ff ff call c00216c1 <intr\_context>

c002d39e: 84 c0 test al,al

c002d3a0: 74 04 je c002d3a6 <grow\_stack+0xac>

c002d3a2: c6 46 0a 00 mov BYTE PTR [esi+0xa],0x0

c002d3a6: e8 40 38 ff ff call c0020beb <thread\_current>

c002d3ab: 83 ec 08 sub esp,0x8

c002d3ae: 83 c6 20 add esi,0x20

c002d3b1: 56 push esi

c002d3b2: 83 c0 78 add eax,0x78

c002d3b5: 50 push eax

c002d3b6: e8 93 bb ff ff call c0028f4e <hash\_insert>

c002d3bb: 83 c4 10 add esp,0x10

c002d3be: 85 c0 test eax,eax

c002d3c0: 0f 94 c0 sete al

c002d3c3: 89 c7 mov edi,eax

c002d3c5: 89 f8 mov eax,edi

c002d3c7: 5b pop ebx

c002d3c8: 5e pop esi

c002d3c9: 5f pop edi

c002d3ca: c3 ret

c002d3cb <swap\_init>:

c002d3cb: 83 ec 18 sub esp,0x18

c002d3ce: 6a 03 push 0x3

c002d3d0: e8 e6 6c ff ff call c00240bb <block\_get\_role>

c002d3d5: a3 40 ba 03 c0 mov ds:0xc003ba40,eax

c002d3da: 83 c4 10 add esp,0x10

c002d3dd: 85 c0 test eax,eax

c002d3df: 74 3a je c002d41b <swap\_init+0x50>

c002d3e1: 83 ec 0c sub esp,0xc

c002d3e4: 50 push eax

c002d3e5: e8 83 6e ff ff call c002426d <block\_size>

c002d3ea: c1 e8 03 shr eax,0x3

c002d3ed: 89 04 24 mov DWORD PTR [esp],eax

c002d3f0: e8 f8 b3 ff ff call c00287ed <bitmap\_create>

c002d3f5: a3 4c ba 03 c0 mov ds:0xc003ba4c,eax

c002d3fa: 83 c4 10 add esp,0x10

c002d3fd: 85 c0 test eax,eax

c002d3ff: 74 1a je c002d41b <swap\_init+0x50>

c002d401: 83 ec 08 sub esp,0x8

c002d404: 6a 00 push 0x0

c002d406: 50 push eax

c002d407: e8 9f b3 ff ff call c00287ab <bitmap\_set\_all>

c002d40c: c7 04 24 00 ba 03 c0 mov DWORD PTR [esp],0xc003ba00

c002d413: e8 e9 52 ff ff call c0022701 <lock\_init>

c002d418: 83 c4 10 add esp,0x10

c002d41b: 83 c4 0c add esp,0xc

c002d41e: c3 ret

c002d41f <swap\_out>:

c002d41f: 55 push ebp

c002d420: 57 push edi

c002d421: 56 push esi

c002d422: 53 push ebx

c002d423: 83 ec 0c sub esp,0xc

c002d426: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

c002d42a: 83 3d 40 ba 03 c0 00 cmp DWORD PTR ds:0xc003ba40,0x0

c002d431: 74 09 je c002d43c <swap\_out+0x1d>

c002d433: 83 3d 4c ba 03 c0 00 cmp DWORD PTR ds:0xc003ba4c,0x0

c002d43a: 75 16 jne c002d452 <swap\_out+0x33>

c002d43c: 68 74 16 03 c0 push 0xc0031674

c002d441: 68 a8 ec 02 c0 push 0xc002eca8

c002d446: 6a 18 push 0x18

c002d448: 68 dc 16 03 c0 push 0xc00316dc

c002d44d: e8 eb a4 ff ff call c002793d <debug\_panic>

c002d452: 83 ec 0c sub esp,0xc

c002d455: 68 00 ba 03 c0 push 0xc003ba00

c002d45a: e8 24 53 ff ff call c0022783 <lock\_acquire>

c002d45f: 6a 00 push 0x0

c002d461: 6a 01 push 0x1

c002d463: 6a 00 push 0x0

c002d465: ff 35 4c ba 03 c0 push DWORD PTR ds:0xc003ba4c

c002d46b: e8 c4 b6 ff ff call c0028b34 <bitmap\_scan\_and\_flip>

c002d470: 89 c5 mov ebp,eax

c002d472: 83 c4 20 add esp,0x20

c002d475: 83 f8 ff cmp eax,0xffffffff

c002d478: 75 16 jne c002d490 <swap\_out+0x71>

c002d47a: 68 ec 16 03 c0 push 0xc00316ec

c002d47f: 68 a8 ec 02 c0 push 0xc002eca8

c002d484: 6a 1f push 0x1f

c002d486: 68 dc 16 03 c0 push 0xc00316dc

c002d48b: e8 ad a4 ff ff call c002793d <debug\_panic>

c002d490: 8d 34 c5 00 00 00 00 lea esi,[eax\*8+0x0]

c002d497: 89 fb mov ebx,edi

c002d499: 81 c7 00 10 00 00 add edi,0x1000

c002d49f: 83 ec 04 sub esp,0x4

c002d4a2: 53 push ebx

c002d4a3: 56 push esi

c002d4a4: ff 35 40 ba 03 c0 push DWORD PTR ds:0xc003ba40

c002d4aa: e8 62 6d ff ff call c0024211 <block\_write>

c002d4af: 83 c6 01 add esi,0x1

c002d4b2: 81 c3 00 02 00 00 add ebx,0x200

c002d4b8: 83 c4 10 add esp,0x10

c002d4bb: 39 fb cmp ebx,edi

c002d4bd: 75 e0 jne c002d49f <swap\_out+0x80>

c002d4bf: 83 ec 0c sub esp,0xc

c002d4c2: 68 00 ba 03 c0 push 0xc003ba00

c002d4c7: e8 07 54 ff ff call c00228d3 <lock\_release>

c002d4cc: 89 e8 mov eax,ebp

c002d4ce: 83 c4 1c add esp,0x1c

c002d4d1: 5b pop ebx

c002d4d2: 5e pop esi

c002d4d3: 5f pop edi

c002d4d4: 5d pop ebp

c002d4d5: c3 ret

c002d4d6 <swap\_in>:

c002d4d6: 57 push edi

c002d4d7: 56 push esi

c002d4d8: 53 push ebx

c002d4d9: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

c002d4dd: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

c002d4e1: 83 3d 40 ba 03 c0 00 cmp DWORD PTR ds:0xc003ba40,0x0

c002d4e8: 0f 84 93 00 00 00 je c002d581 <swap\_in+0xab>

c002d4ee: 83 3d 4c ba 03 c0 00 cmp DWORD PTR ds:0xc003ba4c,0x0

c002d4f5: 0f 84 86 00 00 00 je c002d581 <swap\_in+0xab>

c002d4fb: 83 ec 0c sub esp,0xc

c002d4fe: 68 00 ba 03 c0 push 0xc003ba00

c002d503: e8 7b 52 ff ff call c0022783 <lock\_acquire>

c002d508: 83 c4 08 add esp,0x8

c002d50b: 56 push esi

c002d50c: ff 35 4c ba 03 c0 push DWORD PTR ds:0xc003ba4c

c002d512: e8 72 b1 ff ff call c0028689 <bitmap\_test>

c002d517: 83 c4 10 add esp,0x10

c002d51a: 84 c0 test al,al

c002d51c: 75 16 jne c002d534 <swap\_in+0x5e>

c002d51e: 68 a8 16 03 c0 push 0xc00316a8

c002d523: 68 a0 ec 02 c0 push 0xc002eca0

c002d528: 6a 35 push 0x35

c002d52a: 68 dc 16 03 c0 push 0xc00316dc

c002d52f: e8 09 a4 ff ff call c002793d <debug\_panic>

c002d534: 83 ec 08 sub esp,0x8

c002d537: 56 push esi

c002d538: ff 35 4c ba 03 c0 push DWORD PTR ds:0xc003ba4c

c002d53e: e8 29 b1 ff ff call c002866c <bitmap\_flip>

c002d543: c1 e6 03 shl esi,0x3

c002d546: 89 fb mov ebx,edi

c002d548: 81 c7 00 10 00 00 add edi,0x1000

c002d54e: 83 c4 10 add esp,0x10

c002d551: 83 ec 04 sub esp,0x4

c002d554: 53 push ebx

c002d555: 56 push esi

c002d556: ff 35 40 ba 03 c0 push DWORD PTR ds:0xc003ba40

c002d55c: e8 7c 6c ff ff call c00241dd <block\_read>

c002d561: 83 c6 01 add esi,0x1

c002d564: 81 c3 00 02 00 00 add ebx,0x200

c002d56a: 83 c4 10 add esp,0x10

c002d56d: 39 fb cmp ebx,edi

c002d56f: 75 e0 jne c002d551 <swap\_in+0x7b>

c002d571: 83 ec 0c sub esp,0xc

c002d574: 68 00 ba 03 c0 push 0xc003ba00

c002d579: e8 55 53 ff ff call c00228d3 <lock\_release>

c002d57e: 83 c4 10 add esp,0x10

c002d581: 5b pop ebx

c002d582: 5e pop esi

c002d583: 5f pop edi

c002d584: c3 ret

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