objdump -d echo -M intel

echo: file format elf32-i386

Disassembly of section .text:

08048094 <main>:

8048094: 8d 4c 24 04 lea ecx,[esp+0x4]

8048098: 83 e4 f0 and esp,0xfffffff0

804809b: ff 71 fc push DWORD PTR [ecx-0x4]

804809e: 55 push ebp

804809f: 89 e5 mov ebp,esp

80480a1: 51 push ecx

80480a2: 83 ec 10 sub esp,0x10

80480a5: 68 6d a3 04 08 push 0x804a36d

80480aa: e8 fd 03 00 00 call 80484ac <printf>

80480af: 83 c4 10 add esp,0x10

80480b2: b8 00 00 00 00 mov eax,0x0

80480b7: 8b 4d fc mov ecx,DWORD PTR [ebp-0x4]

80480ba: c9 leave

80480bb: 8d 61 fc lea esp,[ecx-0x4]

80480be: c3 ret

080480bf <\_start>:

80480bf: 83 ec 14 sub esp,0x14

80480c2: ff 74 24 1c push DWORD PTR [esp+0x1c]

80480c6: ff 74 24 1c push DWORD PTR [esp+0x1c]

80480ca: e8 c5 ff ff ff call 8048094 <main>

80480cf: 89 04 24 mov DWORD PTR [esp],eax

80480d2: e8 d5 17 00 00 call 80498ac <exit>

080480d7 <vsnprintf\_helper>:

80480d7: 53 push ebx

80480d8: 8b 5c 24 08 mov ebx,DWORD PTR [esp+0x8]

80480dc: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

80480e0: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

80480e3: 8d 4a 01 lea ecx,[edx+0x1]

80480e6: 89 48 04 mov DWORD PTR [eax+0x4],ecx

80480e9: 3b 50 08 cmp edx,DWORD PTR [eax+0x8]

80480ec: 7d 09 jge 80480f7 <vsnprintf\_helper+0x20>

80480ee: 8b 10 mov edx,DWORD PTR [eax]

80480f0: 8d 4a 01 lea ecx,[edx+0x1]

80480f3: 89 08 mov DWORD PTR [eax],ecx

80480f5: 88 1a mov BYTE PTR [edx],bl

80480f7: 5b pop ebx

80480f8: c3 ret

080480f9 <output\_dup>:

80480f9: 55 push ebp

80480fa: 57 push edi

80480fb: 56 push esi

80480fc: 53 push ebx

80480fd: 83 ec 0c sub esp,0xc

8048100: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

8048104: 85 d2 test edx,edx

8048106: 74 16 je 804811e <output\_dup+0x25>

8048108: 89 cd mov ebp,ecx

804810a: 89 d3 mov ebx,edx

804810c: 0f be f0 movsx esi,al

804810f: 83 ec 08 sub esp,0x8

8048112: 57 push edi

8048113: 56 push esi

8048114: ff d5 call ebp

8048116: 83 c4 10 add esp,0x10

8048119: 83 eb 01 sub ebx,0x1

804811c: 75 f1 jne 804810f <output\_dup+0x16>

804811e: 83 c4 0c add esp,0xc

8048121: 5b pop ebx

8048122: 5e pop esi

8048123: 5f pop edi

8048124: 5d pop ebp

8048125: c3 ret

08048126 <format\_integer>:

8048126: 55 push ebp

8048127: 57 push edi

8048128: 56 push esi

8048129: 53 push ebx

804812a: 83 ec 7c sub esp,0x7c

804812d: 89 c6 mov esi,eax

804812f: 89 d7 mov edi,edx

8048131: 8b 84 24 90 00 00 00 mov eax,DWORD PTR [esp+0x90]

8048138: c7 44 24 20 00 00 00 mov DWORD PTR [esp+0x20],0x0

804813f: 00

8048140: 84 c9 test cl,cl

8048142: 74 40 je 8048184 <format\_integer+0x5e>

8048144: 8b 94 24 98 00 00 00 mov edx,DWORD PTR [esp+0x98]

804814b: 8b 12 mov edx,DWORD PTR [edx]

804814d: f6 c2 02 test dl,0x2

8048150: 74 10 je 8048162 <format\_integer+0x3c>

8048152: 3c 01 cmp al,0x1

8048154: 19 c0 sbb eax,eax

8048156: 83 e0 fe and eax,0xfffffffe

8048159: 83 c0 2d add eax,0x2d

804815c: 89 44 24 20 mov DWORD PTR [esp+0x20],eax

8048160: eb 22 jmp 8048184 <format\_integer+0x5e>

8048162: f6 c2 04 test dl,0x4

8048165: 74 10 je 8048177 <format\_integer+0x51>

8048167: 3c 01 cmp al,0x1

8048169: 19 c0 sbb eax,eax

804816b: 83 e0 f3 and eax,0xfffffff3

804816e: 83 c0 2d add eax,0x2d

8048171: 89 44 24 20 mov DWORD PTR [esp+0x20],eax

8048175: eb 0d jmp 8048184 <format\_integer+0x5e>

8048177: 3c 01 cmp al,0x1

8048179: 19 c0 sbb eax,eax

804817b: f7 d0 not eax

804817d: 83 e0 2d and eax,0x2d

8048180: 89 44 24 20 mov DWORD PTR [esp+0x20],eax

8048184: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

804818b: 8b 00 mov eax,DWORD PTR [eax]

804818d: 89 44 24 28 mov DWORD PTR [esp+0x28],eax

8048191: 83 e0 08 and eax,0x8

8048194: 89 44 24 2c mov DWORD PTR [esp+0x2c],eax

8048198: 89 f2 mov edx,esi

804819a: 09 fa or edx,edi

804819c: 74 14 je 80481b2 <format\_integer+0x8c>

804819e: 85 c0 test eax,eax

80481a0: 74 10 je 80481b2 <format\_integer+0x8c>

80481a2: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

80481a9: 8b 40 08 mov eax,DWORD PTR [eax+0x8]

80481ac: 89 44 24 24 mov DWORD PTR [esp+0x24],eax

80481b0: eb 08 jmp 80481ba <format\_integer+0x94>

80481b2: c7 44 24 24 00 00 00 mov DWORD PTR [esp+0x24],0x0

80481b9: 00

80481ba: 89 f8 mov eax,edi

80481bc: 09 f0 or eax,esi

80481be: 0f 84 ad 00 00 00 je 8048271 <format\_integer+0x14b>

80481c4: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

80481cb: 8b 40 04 mov eax,DWORD PTR [eax+0x4]

80481ce: 89 44 24 18 mov DWORD PTR [esp+0x18],eax

80481d2: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

80481d9: 8b 00 mov eax,DWORD PTR [eax]

80481db: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

80481df: 99 cdq

80481e0: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

80481e4: bb 00 00 00 00 mov ebx,0x0

80481e9: 8d 6c 24 30 lea ebp,[esp+0x30]

80481ed: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

80481f1: c1 e8 05 shr eax,0x5

80481f4: 83 e0 01 and eax,0x1

80481f7: 88 44 24 1f mov BYTE PTR [esp+0x1f],al

80481fb: eb 2b jmp 8048228 <format\_integer+0x102>

80481fd: 80 7c 24 1f 00 cmp BYTE PTR [esp+0x1f],0x0

8048202: 74 20 je 8048224 <format\_integer+0xfe>

8048204: 85 db test ebx,ebx

8048206: 7e 1c jle 8048224 <format\_integer+0xfe>

8048208: 8b 8c 24 94 00 00 00 mov ecx,DWORD PTR [esp+0x94]

804820f: 89 d8 mov eax,ebx

8048211: 99 cdq

8048212: f7 79 0c idiv DWORD PTR [ecx+0xc]

8048215: 85 d2 test edx,edx

8048217: 75 0b jne 8048224 <format\_integer+0xfe>

8048219: 8d 45 02 lea eax,[ebp+0x2]

804821c: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

8048220: c6 45 01 2c mov BYTE PTR [ebp+0x1],0x2c

8048224: 8b 6c 24 14 mov ebp,DWORD PTR [esp+0x14]

8048228: 8d 45 01 lea eax,[ebp+0x1]

804822b: 89 44 24 14 mov DWORD PTR [esp+0x14],eax

804822f: ff 74 24 0c push DWORD PTR [esp+0xc]

8048233: ff 74 24 0c push DWORD PTR [esp+0xc]

8048237: 57 push edi

8048238: 56 push esi

8048239: e8 d8 15 00 00 call 8049816 <\_\_umoddi3>

804823e: 83 c4 10 add esp,0x10

8048241: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

8048245: 0f b6 04 01 movzx eax,BYTE PTR [ecx+eax\*1]

8048249: 88 45 00 mov BYTE PTR [ebp+0x0],al

804824c: ff 74 24 0c push DWORD PTR [esp+0xc]

8048250: ff 74 24 0c push DWORD PTR [esp+0xc]

8048254: 57 push edi

8048255: 56 push esi

8048256: e8 9f 15 00 00 call 80497fa <\_\_udivdi3>

804825b: 83 c4 10 add esp,0x10

804825e: 89 c6 mov esi,eax

8048260: 89 d7 mov edi,edx

8048262: 83 c3 01 add ebx,0x1

8048265: 89 d0 mov eax,edx

8048267: 09 f0 or eax,esi

8048269: 75 92 jne 80481fd <format\_integer+0xd7>

804826b: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

804826f: eb 04 jmp 8048275 <format\_integer+0x14f>

8048271: 8d 5c 24 30 lea ebx,[esp+0x30]

8048275: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

804827c: 8b 50 08 mov edx,DWORD PTR [eax+0x8]

804827f: 85 d2 test edx,edx

8048281: b8 01 00 00 00 mov eax,0x1

8048286: 0f 48 d0 cmovs edx,eax

8048289: 8d 7c 24 30 lea edi,[esp+0x30]

804828d: 89 d8 mov eax,ebx

804828f: 29 f8 sub eax,edi

8048291: 39 c2 cmp edx,eax

8048293: 7e 1f jle 80482b4 <format\_integer+0x18e>

8048295: 8d 44 24 6f lea eax,[esp+0x6f]

8048299: 39 c3 cmp ebx,eax

804829b: 73 17 jae 80482b4 <format\_integer+0x18e>

804829d: 89 f9 mov ecx,edi

804829f: 89 c6 mov esi,eax

80482a1: 83 c3 01 add ebx,0x1

80482a4: c6 43 ff 30 mov BYTE PTR [ebx-0x1],0x30

80482a8: 89 d8 mov eax,ebx

80482aa: 29 c8 sub eax,ecx

80482ac: 39 c2 cmp edx,eax

80482ae: 7e 04 jle 80482b4 <format\_integer+0x18e>

80482b0: 39 f3 cmp ebx,esi

80482b2: 72 ed jb 80482a1 <format\_integer+0x17b>

80482b4: 83 7c 24 2c 00 cmp DWORD PTR [esp+0x2c],0x0

80482b9: 74 20 je 80482db <format\_integer+0x1b5>

80482bb: 8b 84 24 94 00 00 00 mov eax,DWORD PTR [esp+0x94]

80482c2: 83 38 08 cmp DWORD PTR [eax],0x8

80482c5: 75 14 jne 80482db <format\_integer+0x1b5>

80482c7: 8d 44 24 30 lea eax,[esp+0x30]

80482cb: 39 c3 cmp ebx,eax

80482cd: 74 06 je 80482d5 <format\_integer+0x1af>

80482cf: 80 7b ff 30 cmp BYTE PTR [ebx-0x1],0x30

80482d3: 74 06 je 80482db <format\_integer+0x1b5>

80482d5: c6 03 30 mov BYTE PTR [ebx],0x30

80482d8: 8d 5b 01 lea ebx,[ebx+0x1]

80482db: 29 df sub edi,ebx

80482dd: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

80482e4: 03 78 04 add edi,DWORD PTR [eax+0x4]

80482e7: 89 fe mov esi,edi

80482e9: 83 7c 24 24 01 cmp DWORD PTR [esp+0x24],0x1

80482ee: 19 c0 sbb eax,eax

80482f0: f7 d0 not eax

80482f2: 83 e0 02 and eax,0x2

80482f5: 29 c6 sub esi,eax

80482f7: 83 7c 24 20 00 cmp DWORD PTR [esp+0x20],0x0

80482fc: 0f 95 c0 setne al

80482ff: 0f b6 c0 movzx eax,al

8048302: 29 c6 sub esi,eax

8048304: b8 00 00 00 00 mov eax,0x0

8048309: 0f 48 f0 cmovs esi,eax

804830c: f6 44 24 28 11 test BYTE PTR [esp+0x28],0x11

8048311: 75 20 jne 8048333 <format\_integer+0x20d>

8048313: 83 ec 0c sub esp,0xc

8048316: ff b4 24 ac 00 00 00 push DWORD PTR [esp+0xac]

804831d: 8b 8c 24 ac 00 00 00 mov ecx,DWORD PTR [esp+0xac]

8048324: 89 f2 mov edx,esi

8048326: b8 20 00 00 00 mov eax,0x20

804832b: e8 c9 fd ff ff call 80480f9 <output\_dup>

8048330: 83 c4 10 add esp,0x10

8048333: 83 7c 24 20 00 cmp DWORD PTR [esp+0x20],0x0

8048338: 74 18 je 8048352 <format\_integer+0x22c>

804833a: 83 ec 08 sub esp,0x8

804833d: ff b4 24 a8 00 00 00 push DWORD PTR [esp+0xa8]

8048344: ff 74 24 2c push DWORD PTR [esp+0x2c]

8048348: ff 94 24 ac 00 00 00 call DWORD PTR [esp+0xac]

804834f: 83 c4 10 add esp,0x10

8048352: 83 7c 24 24 00 cmp DWORD PTR [esp+0x24],0x0

8048357: 74 2d je 8048386 <format\_integer+0x260>

8048359: 83 ec 08 sub esp,0x8

804835c: ff b4 24 a8 00 00 00 push DWORD PTR [esp+0xa8]

8048363: 6a 30 push 0x30

8048365: ff 94 24 ac 00 00 00 call DWORD PTR [esp+0xac]

804836c: 83 c4 08 add esp,0x8

804836f: ff b4 24 a8 00 00 00 push DWORD PTR [esp+0xa8]

8048376: 0f be 44 24 30 movsx eax,BYTE PTR [esp+0x30]

804837b: 50 push eax

804837c: ff 94 24 ac 00 00 00 call DWORD PTR [esp+0xac]

8048383: 83 c4 10 add esp,0x10

8048386: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

804838d: f6 00 10 test BYTE PTR [eax],0x10

8048390: 74 20 je 80483b2 <format\_integer+0x28c>

8048392: 83 ec 0c sub esp,0xc

8048395: ff b4 24 ac 00 00 00 push DWORD PTR [esp+0xac]

804839c: 8b 8c 24 ac 00 00 00 mov ecx,DWORD PTR [esp+0xac]

80483a3: 89 f2 mov edx,esi

80483a5: b8 30 00 00 00 mov eax,0x30

80483aa: e8 4a fd ff ff call 80480f9 <output\_dup>

80483af: 83 c4 10 add esp,0x10

80483b2: 8d 44 24 30 lea eax,[esp+0x30]

80483b6: 39 c3 cmp ebx,eax

80483b8: 76 2c jbe 80483e6 <format\_integer+0x2c0>

80483ba: 89 c7 mov edi,eax

80483bc: 89 74 24 08 mov DWORD PTR [esp+0x8],esi

80483c0: 8b b4 24 9c 00 00 00 mov esi,DWORD PTR [esp+0x9c]

80483c7: 8b ac 24 a0 00 00 00 mov ebp,DWORD PTR [esp+0xa0]

80483ce: 83 eb 01 sub ebx,0x1

80483d1: 83 ec 08 sub esp,0x8

80483d4: 55 push ebp

80483d5: 0f be 03 movsx eax,BYTE PTR [ebx]

80483d8: 50 push eax

80483d9: ff d6 call esi

80483db: 83 c4 10 add esp,0x10

80483de: 39 fb cmp ebx,edi

80483e0: 75 ec jne 80483ce <format\_integer+0x2a8>

80483e2: 8b 74 24 08 mov esi,DWORD PTR [esp+0x8]

80483e6: 8b 84 24 98 00 00 00 mov eax,DWORD PTR [esp+0x98]

80483ed: f6 00 01 test BYTE PTR [eax],0x1

80483f0: 74 20 je 8048412 <format\_integer+0x2ec>

80483f2: 83 ec 0c sub esp,0xc

80483f5: ff b4 24 ac 00 00 00 push DWORD PTR [esp+0xac]

80483fc: 8b 8c 24 ac 00 00 00 mov ecx,DWORD PTR [esp+0xac]

8048403: 89 f2 mov edx,esi

8048405: b8 20 00 00 00 mov eax,0x20

804840a: e8 ea fc ff ff call 80480f9 <output\_dup>

804840f: 83 c4 10 add esp,0x10

8048412: 83 c4 7c add esp,0x7c

8048415: 5b pop ebx

8048416: 5e pop esi

8048417: 5f pop edi

8048418: 5d pop ebp

8048419: c3 ret

0804841a <format\_string>:

804841a: 55 push ebp

804841b: 57 push edi

804841c: 56 push esi

804841d: 53 push ebx

804841e: 83 ec 1c sub esp,0x1c

8048421: 89 c5 mov ebp,eax

8048423: 89 d6 mov esi,edx

8048425: 89 4c 24 0c mov DWORD PTR [esp+0xc],ecx

8048429: 8b 7c 24 34 mov edi,DWORD PTR [esp+0x34]

804842d: 8b 51 04 mov edx,DWORD PTR [ecx+0x4]

8048430: 39 f2 cmp edx,esi

8048432: 7e 6c jle 80484a0 <format\_string+0x86>

8048434: f6 01 01 test BYTE PTR [ecx],0x1

8048437: 75 61 jne 804849a <format\_string+0x80>

8048439: 29 f2 sub edx,esi

804843b: 83 ec 0c sub esp,0xc

804843e: 57 push edi

804843f: 8b 4c 24 40 mov ecx,DWORD PTR [esp+0x40]

8048443: b8 20 00 00 00 mov eax,0x20

8048448: e8 ac fc ff ff call 80480f9 <output\_dup>

804844d: 83 c4 10 add esp,0x10

8048450: 85 f6 test esi,esi

8048452: 7e 1d jle 8048471 <format\_string+0x57>

8048454: bb 00 00 00 00 mov ebx,0x0

8048459: 83 ec 08 sub esp,0x8

804845c: 57 push edi

804845d: 0f be 44 1d 00 movsx eax,BYTE PTR [ebp+ebx\*1+0x0]

8048462: 50 push eax

8048463: ff 54 24 40 call DWORD PTR [esp+0x40]

8048467: 83 c3 01 add ebx,0x1

804846a: 83 c4 10 add esp,0x10

804846d: 39 de cmp esi,ebx

804846f: 7f e8 jg 8048459 <format\_string+0x3f>

8048471: 8b 44 24 0c mov eax,DWORD PTR [esp+0xc]

8048475: 8b 50 04 mov edx,DWORD PTR [eax+0x4]

8048478: 39 d6 cmp esi,edx

804847a: 7d 28 jge 80484a4 <format\_string+0x8a>

804847c: f6 00 01 test BYTE PTR [eax],0x1

804847f: 74 23 je 80484a4 <format\_string+0x8a>

8048481: 29 f2 sub edx,esi

8048483: 83 ec 0c sub esp,0xc

8048486: 57 push edi

8048487: 8b 4c 24 40 mov ecx,DWORD PTR [esp+0x40]

804848b: b8 20 00 00 00 mov eax,0x20

8048490: e8 64 fc ff ff call 80480f9 <output\_dup>

8048495: 83 c4 10 add esp,0x10

8048498: eb 0a jmp 80484a4 <format\_string+0x8a>

804849a: 85 f6 test esi,esi

804849c: 7f b6 jg 8048454 <format\_string+0x3a>

804849e: eb e1 jmp 8048481 <format\_string+0x67>

80484a0: 85 f6 test esi,esi

80484a2: 7f b0 jg 8048454 <format\_string+0x3a>

80484a4: 83 c4 1c add esp,0x1c

80484a7: 5b pop ebx

80484a8: 5e pop esi

80484a9: 5f pop edi

80484aa: 5d pop ebp

80484ab: c3 ret

080484ac <printf>:

80484ac: 83 ec 0c sub esp,0xc

80484af: 8d 44 24 14 lea eax,[esp+0x14]

80484b3: 83 ec 08 sub esp,0x8

80484b6: 50 push eax

80484b7: ff 74 24 1c push DWORD PTR [esp+0x1c]

80484bb: e8 14 16 00 00 call 8049ad4 <vprintf>

80484c0: 83 c4 1c add esp,0x1c

80484c3: c3 ret

080484c4 <\_\_printf>:

80484c4: 83 ec 0c sub esp,0xc

80484c7: 8d 44 24 1c lea eax,[esp+0x1c]

80484cb: ff 74 24 18 push DWORD PTR [esp+0x18]

80484cf: ff 74 24 18 push DWORD PTR [esp+0x18]

80484d3: 50 push eax

80484d4: ff 74 24 1c push DWORD PTR [esp+0x1c]

80484d8: e8 04 00 00 00 call 80484e1 <\_\_vprintf>

80484dd: 83 c4 1c add esp,0x1c

80484e0: c3 ret

080484e1 <\_\_vprintf>:

80484e1: 55 push ebp

80484e2: 57 push edi

80484e3: 56 push esi

80484e4: 53 push ebx

80484e5: 83 ec 4c sub esp,0x4c

80484e8: 8b 74 24 60 mov esi,DWORD PTR [esp+0x60]

80484ec: 8b 6c 24 64 mov ebp,DWORD PTR [esp+0x64]

80484f0: 0f b6 06 movzx eax,BYTE PTR [esi]

80484f3: 84 c0 test al,al

80484f5: 0f 84 49 06 00 00 je 8048b44 <\_\_vprintf+0x663>

80484fb: 3c 25 cmp al,0x25

80484fd: 74 19 je 8048518 <\_\_vprintf+0x37>

80484ff: 83 ec 08 sub esp,0x8

8048502: ff 74 24 74 push DWORD PTR [esp+0x74]

8048506: 0f be c0 movsx eax,al

8048509: 50 push eax

804850a: ff 54 24 78 call DWORD PTR [esp+0x78]

804850e: 83 c4 10 add esp,0x10

8048511: 89 f3 mov ebx,esi

8048513: e9 12 06 00 00 jmp 8048b2a <\_\_vprintf+0x649>

8048518: 8d 5e 01 lea ebx,[esi+0x1]

804851b: 80 7e 01 25 cmp BYTE PTR [esi+0x1],0x25

804851f: 75 15 jne 8048536 <\_\_vprintf+0x55>

8048521: 83 ec 08 sub esp,0x8

8048524: ff 74 24 74 push DWORD PTR [esp+0x74]

8048528: 6a 25 push 0x25

804852a: ff 54 24 78 call DWORD PTR [esp+0x78]

804852e: 83 c4 10 add esp,0x10

8048531: e9 f4 05 00 00 jmp 8048b2a <\_\_vprintf+0x649>

8048536: c7 44 24 30 00 00 00 mov DWORD PTR [esp+0x30],0x0

804853d: 00

804853e: bf 00 00 00 00 mov edi,0x0

8048543: be 00 00 00 00 mov esi,0x0

8048548: eb 07 jmp 8048551 <\_\_vprintf+0x70>

804854a: 89 cb mov ebx,ecx

804854c: bf 01 00 00 00 mov edi,0x1

8048551: 8d 4b 01 lea ecx,[ebx+0x1]

8048554: 0f b6 41 ff movzx eax,BYTE PTR [ecx-0x1]

8048558: 8d 50 e0 lea edx,[eax-0x20]

804855b: 80 fa 10 cmp dl,0x10

804855e: 77 28 ja 8048588 <\_\_vprintf+0xa7>

8048560: 0f b6 d2 movzx edx,dl

8048563: ff 24 95 84 9b 04 08 jmp DWORD PTR [edx\*4+0x8049b84]

804856a: 83 ce 01 or esi,0x1

804856d: eb db jmp 804854a <\_\_vprintf+0x69>

804856f: 83 ce 02 or esi,0x2

8048572: eb d6 jmp 804854a <\_\_vprintf+0x69>

8048574: 83 ce 04 or esi,0x4

8048577: eb d1 jmp 804854a <\_\_vprintf+0x69>

8048579: 83 ce 08 or esi,0x8

804857c: eb cc jmp 804854a <\_\_vprintf+0x69>

804857e: 83 ce 10 or esi,0x10

8048581: eb c7 jmp 804854a <\_\_vprintf+0x69>

8048583: 83 ce 20 or esi,0x20

8048586: eb c2 jmp 804854a <\_\_vprintf+0x69>

8048588: 89 fa mov edx,edi

804858a: 84 d2 test dl,dl

804858c: 74 13 je 80485a1 <\_\_vprintf+0xc0>

804858e: 89 74 24 30 mov DWORD PTR [esp+0x30],esi

8048592: f7 c6 01 00 00 00 test esi,0x1

8048598: 74 07 je 80485a1 <\_\_vprintf+0xc0>

804859a: 83 e6 ef and esi,0xffffffef

804859d: 89 74 24 30 mov DWORD PTR [esp+0x30],esi

80485a1: 8b 54 24 30 mov edx,DWORD PTR [esp+0x30]

80485a5: f6 c2 02 test dl,0x2

80485a8: 74 07 je 80485b1 <\_\_vprintf+0xd0>

80485aa: 83 e2 fb and edx,0xfffffffb

80485ad: 89 54 24 30 mov DWORD PTR [esp+0x30],edx

80485b1: c7 44 24 34 00 00 00 mov DWORD PTR [esp+0x34],0x0

80485b8: 00

80485b9: 3c 2a cmp al,0x2a

80485bb: 74 12 je 80485cf <\_\_vprintf+0xee>

80485bd: 0f be d0 movsx edx,al

80485c0: 83 ea 30 sub edx,0x30

80485c3: b9 00 00 00 00 mov ecx,0x0

80485c8: 83 fa 09 cmp edx,0x9

80485cb: 76 10 jbe 80485dd <\_\_vprintf+0xfc>

80485cd: eb 40 jmp 804860f <\_\_vprintf+0x12e>

80485cf: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

80485d2: 89 44 24 34 mov DWORD PTR [esp+0x34],eax

80485d6: 8d 6d 04 lea ebp,[ebp+0x4]

80485d9: 89 cb mov ebx,ecx

80485db: eb 1f jmp 80485fc <\_\_vprintf+0x11b>

80485dd: 8d 14 89 lea edx,[ecx+ecx\*4]

80485e0: 0f be c0 movsx eax,al

80485e3: 8d 4c 50 d0 lea ecx,[eax+edx\*2-0x30]

80485e7: 83 c3 01 add ebx,0x1

80485ea: 0f b6 03 movzx eax,BYTE PTR [ebx]

80485ed: 0f be d0 movsx edx,al

80485f0: 83 ea 30 sub edx,0x30

80485f3: 83 fa 09 cmp edx,0x9

80485f6: 76 e5 jbe 80485dd <\_\_vprintf+0xfc>

80485f8: 89 4c 24 34 mov DWORD PTR [esp+0x34],ecx

80485fc: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

8048600: 85 c0 test eax,eax

8048602: 79 0b jns 804860f <\_\_vprintf+0x12e>

8048604: f7 d8 neg eax

8048606: 89 44 24 34 mov DWORD PTR [esp+0x34],eax

804860a: 83 4c 24 30 01 or DWORD PTR [esp+0x30],0x1

804860f: c7 44 24 38 ff ff ff mov DWORD PTR [esp+0x38],0xffffffff

8048616: ff

8048617: 80 3b 2e cmp BYTE PTR [ebx],0x2e

804861a: 0f 85 1b 05 00 00 jne 8048b3b <\_\_vprintf+0x65a>

8048620: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

8048624: 3c 2a cmp al,0x2a

8048626: 75 0f jne 8048637 <\_\_vprintf+0x156>

8048628: 83 c3 02 add ebx,0x2

804862b: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

804862e: 89 44 24 38 mov DWORD PTR [esp+0x38],eax

8048632: 8d 6d 04 lea ebp,[ebp+0x4]

8048635: eb 3a jmp 8048671 <\_\_vprintf+0x190>

8048637: 83 c3 01 add ebx,0x1

804863a: c7 44 24 38 00 00 00 mov DWORD PTR [esp+0x38],0x0

8048641: 00

8048642: 0f be d0 movsx edx,al

8048645: 83 ea 30 sub edx,0x30

8048648: 83 fa 09 cmp edx,0x9

804864b: 77 39 ja 8048686 <\_\_vprintf+0x1a5>

804864d: b9 00 00 00 00 mov ecx,0x0

8048652: 8d 14 89 lea edx,[ecx+ecx\*4]

8048655: 0f be c0 movsx eax,al

8048658: 8d 4c 50 d0 lea ecx,[eax+edx\*2-0x30]

804865c: 83 c3 01 add ebx,0x1

804865f: 0f b6 03 movzx eax,BYTE PTR [ebx]

8048662: 0f be d0 movsx edx,al

8048665: 83 ea 30 sub edx,0x30

8048668: 83 fa 09 cmp edx,0x9

804866b: 76 e5 jbe 8048652 <\_\_vprintf+0x171>

804866d: 89 4c 24 38 mov DWORD PTR [esp+0x38],ecx

8048671: 8b 4c 24 38 mov ecx,DWORD PTR [esp+0x38]

8048675: 85 c9 test ecx,ecx

8048677: 79 12 jns 804868b <\_\_vprintf+0x1aa>

8048679: c7 44 24 38 ff ff ff mov DWORD PTR [esp+0x38],0xffffffff

8048680: ff

8048681: e9 b5 04 00 00 jmp 8048b3b <\_\_vprintf+0x65a>

8048686: b9 00 00 00 00 mov ecx,0x0

804868b: 83 64 24 30 ef and DWORD PTR [esp+0x30],0xffffffef

8048690: c7 44 24 3c 03 00 00 mov DWORD PTR [esp+0x3c],0x3

8048697: 00

8048698: 8d 73 01 lea esi,[ebx+0x1]

804869b: 0f b6 03 movzx eax,BYTE PTR [ebx]

804869e: 8d 50 98 lea edx,[eax-0x68]

80486a1: 80 fa 12 cmp dl,0x12

80486a4: 0f 87 06 01 00 00 ja 80487b0 <\_\_vprintf+0x2cf>

80486aa: 0f b6 d2 movzx edx,dl

80486ad: ff 24 95 c8 9b 04 08 jmp DWORD PTR [edx\*4+0x8049bc8]

80486b4: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

80486b8: 3c 68 cmp al,0x68

80486ba: 75 25 jne 80486e1 <\_\_vprintf+0x200>

80486bc: 8d 73 02 lea esi,[ebx+0x2]

80486bf: c7 44 24 3c 01 00 00 mov DWORD PTR [esp+0x3c],0x1

80486c6: 00

80486c7: 0f b6 43 02 movzx eax,BYTE PTR [ebx+0x2]

80486cb: 8d 50 bb lea edx,[eax-0x45]

80486ce: 80 fa 33 cmp dl,0x33

80486d1: 0f 87 38 04 00 00 ja 8048b0f <\_\_vprintf+0x62e>

80486d7: 0f b6 d2 movzx edx,dl

80486da: ff 24 95 14 9c 04 08 jmp DWORD PTR [edx\*4+0x8049c14]

80486e1: c7 44 24 3c 02 00 00 mov DWORD PTR [esp+0x3c],0x2

80486e8: 00

80486e9: 8d 50 bb lea edx,[eax-0x45]

80486ec: 80 fa 33 cmp dl,0x33

80486ef: 0f 87 1a 04 00 00 ja 8048b0f <\_\_vprintf+0x62e>

80486f5: 0f b6 d2 movzx edx,dl

80486f8: ff 24 95 e4 9c 04 08 jmp DWORD PTR [edx\*4+0x8049ce4]

80486ff: c7 44 24 3c 04 00 00 mov DWORD PTR [esp+0x3c],0x4

8048706: 00

8048707: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

804870b: 8d 50 bb lea edx,[eax-0x45]

804870e: 80 fa 33 cmp dl,0x33

8048711: 0f 87 f8 03 00 00 ja 8048b0f <\_\_vprintf+0x62e>

8048717: 0f b6 d2 movzx edx,dl

804871a: ff 24 95 b4 9d 04 08 jmp DWORD PTR [edx\*4+0x8049db4]

8048721: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

8048725: 3c 6c cmp al,0x6c

8048727: 75 25 jne 804874e <\_\_vprintf+0x26d>

8048729: 8d 73 02 lea esi,[ebx+0x2]

804872c: c7 44 24 3c 06 00 00 mov DWORD PTR [esp+0x3c],0x6

8048733: 00

8048734: 0f b6 43 02 movzx eax,BYTE PTR [ebx+0x2]

8048738: 8d 50 bb lea edx,[eax-0x45]

804873b: 80 fa 33 cmp dl,0x33

804873e: 0f 87 cb 03 00 00 ja 8048b0f <\_\_vprintf+0x62e>

8048744: 0f b6 d2 movzx edx,dl

8048747: ff 24 95 84 9e 04 08 jmp DWORD PTR [edx\*4+0x8049e84]

804874e: c7 44 24 3c 05 00 00 mov DWORD PTR [esp+0x3c],0x5

8048755: 00

8048756: 8d 50 bb lea edx,[eax-0x45]

8048759: 80 fa 33 cmp dl,0x33

804875c: 0f 87 ad 03 00 00 ja 8048b0f <\_\_vprintf+0x62e>

8048762: 0f b6 d2 movzx edx,dl

8048765: ff 24 95 54 9f 04 08 jmp DWORD PTR [edx\*4+0x8049f54]

804876c: c7 44 24 3c 07 00 00 mov DWORD PTR [esp+0x3c],0x7

8048773: 00

8048774: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

8048778: 8d 50 bb lea edx,[eax-0x45]

804877b: 80 fa 33 cmp dl,0x33

804877e: 0f 87 8b 03 00 00 ja 8048b0f <\_\_vprintf+0x62e>

8048784: 0f b6 d2 movzx edx,dl

8048787: ff 24 95 24 a0 04 08 jmp DWORD PTR [edx\*4+0x804a024]

804878e: c7 44 24 3c 08 00 00 mov DWORD PTR [esp+0x3c],0x8

8048795: 00

8048796: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

804879a: 8d 50 bb lea edx,[eax-0x45]

804879d: 80 fa 33 cmp dl,0x33

80487a0: 0f 87 69 03 00 00 ja 8048b0f <\_\_vprintf+0x62e>

80487a6: 0f b6 d2 movzx edx,dl

80487a9: ff 24 95 f4 a0 04 08 jmp DWORD PTR [edx\*4+0x804a0f4]

80487b0: 8d 50 bb lea edx,[eax-0x45]

80487b3: 80 fa 33 cmp dl,0x33

80487b6: 0f 87 51 03 00 00 ja 8048b0d <\_\_vprintf+0x62c>

80487bc: 0f b6 d2 movzx edx,dl

80487bf: ff 24 95 c4 a1 04 08 jmp DWORD PTR [edx\*4+0x804a1c4]

80487c6: 89 de mov esi,ebx

80487c8: 83 7c 24 3c 08 cmp DWORD PTR [esp+0x3c],0x8

80487cd: 0f 87 c4 00 00 00 ja 8048897 <\_\_vprintf+0x3b6>

80487d3: 8b 44 24 3c mov eax,DWORD PTR [esp+0x3c]

80487d7: ff 24 85 94 a2 04 08 jmp DWORD PTR [eax\*4+0x804a294]

80487de: 0f be 4d 00 movsx ecx,BYTE PTR [ebp+0x0]

80487e2: 89 c8 mov eax,ecx

80487e4: 99 cdq

80487e5: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

80487e9: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

80487ed: 8d 6d 04 lea ebp,[ebp+0x4]

80487f0: e9 bb 00 00 00 jmp 80488b0 <\_\_vprintf+0x3cf>

80487f5: 0f bf 4d 00 movsx ecx,WORD PTR [ebp+0x0]

80487f9: 89 c8 mov eax,ecx

80487fb: 99 cdq

80487fc: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

8048800: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8048804: 8d 6d 04 lea ebp,[ebp+0x4]

8048807: e9 a4 00 00 00 jmp 80488b0 <\_\_vprintf+0x3cf>

804880c: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

804880f: 89 c8 mov eax,ecx

8048811: 99 cdq

8048812: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

8048816: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

804881a: 8d 6d 04 lea ebp,[ebp+0x4]

804881d: e9 8e 00 00 00 jmp 80488b0 <\_\_vprintf+0x3cf>

8048822: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

8048825: 8b 55 04 mov edx,DWORD PTR [ebp+0x4]

8048828: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

804882c: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8048830: 8d 6d 08 lea ebp,[ebp+0x8]

8048833: eb 7b jmp 80488b0 <\_\_vprintf+0x3cf>

8048835: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

8048838: 89 c8 mov eax,ecx

804883a: 99 cdq

804883b: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

804883f: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8048843: 8d 6d 04 lea ebp,[ebp+0x4]

8048846: eb 68 jmp 80488b0 <\_\_vprintf+0x3cf>

8048848: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

804884b: 8b 55 04 mov edx,DWORD PTR [ebp+0x4]

804884e: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

8048852: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8048856: 8d 6d 08 lea ebp,[ebp+0x8]

8048859: eb 55 jmp 80488b0 <\_\_vprintf+0x3cf>

804885b: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

804885e: 89 c8 mov eax,ecx

8048860: 99 cdq

8048861: 89 4c 24 08 mov DWORD PTR [esp+0x8],ecx

8048865: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8048869: 8d 6d 04 lea ebp,[ebp+0x4]

804886c: eb 42 jmp 80488b0 <\_\_vprintf+0x3cf>

804886e: 8d 45 04 lea eax,[ebp+0x4]

8048871: 8b 7d 00 mov edi,DWORD PTR [ebp+0x0]

8048874: bd 00 00 00 00 mov ebp,0x0

8048879: 89 7c 24 08 mov DWORD PTR [esp+0x8],edi

804887d: 89 6c 24 0c mov DWORD PTR [esp+0xc],ebp

8048881: 89 c5 mov ebp,eax

8048883: 81 ff ff ff ff 7f cmp edi,0x7fffffff

8048889: 76 25 jbe 80488b0 <\_\_vprintf+0x3cf>

804888b: 83 44 24 08 00 add DWORD PTR [esp+0x8],0x0

8048890: 83 54 24 0c ff adc DWORD PTR [esp+0xc],0xffffffff

8048895: eb 19 jmp 80488b0 <\_\_vprintf+0x3cf>

8048897: 68 50 a5 04 08 push 0x804a550

804889c: 68 b8 a2 04 08 push 0x804a2b8

80488a1: 68 dc 00 00 00 push 0xdc

80488a6: 68 81 a3 04 08 push 0x804a381

80488ab: e8 95 0f 00 00 call 8049845 <debug\_panic>

80488b0: 8b 4c 24 08 mov ecx,DWORD PTR [esp+0x8]

80488b4: 8b 5c 24 0c mov ebx,DWORD PTR [esp+0xc]

80488b8: 89 da mov edx,ebx

80488ba: c1 fa 1f sar edx,0x1f

80488bd: 89 d7 mov edi,edx

80488bf: 31 cf xor edi,ecx

80488c1: 89 7c 24 10 mov DWORD PTR [esp+0x10],edi

80488c5: 89 d7 mov edi,edx

80488c7: 33 7c 24 0c xor edi,DWORD PTR [esp+0xc]

80488cb: 89 7c 24 14 mov DWORD PTR [esp+0x14],edi

80488cf: 8b 4c 24 10 mov ecx,DWORD PTR [esp+0x10]

80488d3: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

80488d7: 29 d1 sub ecx,edx

80488d9: 19 d3 sbb ebx,edx

80488db: 89 c8 mov eax,ecx

80488dd: 89 da mov edx,ebx

80488df: 83 ec 0c sub esp,0xc

80488e2: ff 74 24 78 push DWORD PTR [esp+0x78]

80488e6: ff 74 24 78 push DWORD PTR [esp+0x78]

80488ea: 8d 7c 24 44 lea edi,[esp+0x44]

80488ee: 57 push edi

80488ef: 68 f4 a2 04 08 push 0x804a2f4

80488f4: 8b 4c 24 28 mov ecx,DWORD PTR [esp+0x28]

80488f8: c1 e9 1f shr ecx,0x1f

80488fb: 51 push ecx

80488fc: b9 01 00 00 00 mov ecx,0x1

8048901: e8 20 f8 ff ff call 8048126 <format\_integer>

8048906: 83 c4 20 add esp,0x20

8048909: 89 f3 mov ebx,esi

804890b: e9 1a 02 00 00 jmp 8048b2a <\_\_vprintf+0x649>

8048910: 8b 75 00 mov esi,DWORD PTR [ebp+0x0]

8048913: bf 00 00 00 00 mov edi,0x0

8048918: 89 74 24 18 mov DWORD PTR [esp+0x18],esi

804891c: 89 7c 24 1c mov DWORD PTR [esp+0x1c],edi

8048920: 8d 6d 04 lea ebp,[ebp+0x4]

8048923: e9 9d 00 00 00 jmp 80489c5 <\_\_vprintf+0x4e4>

8048928: 0f b6 55 00 movzx edx,BYTE PTR [ebp+0x0]

804892c: 89 54 24 18 mov DWORD PTR [esp+0x18],edx

8048930: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

8048937: 00

8048938: 89 f3 mov ebx,esi

804893a: 8d 6d 04 lea ebp,[ebp+0x4]

804893d: e9 83 00 00 00 jmp 80489c5 <\_\_vprintf+0x4e4>

8048942: 0f b7 55 00 movzx edx,WORD PTR [ebp+0x0]

8048946: 89 54 24 18 mov DWORD PTR [esp+0x18],edx

804894a: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

8048951: 00

8048952: 89 f3 mov ebx,esi

8048954: 8d 6d 04 lea ebp,[ebp+0x4]

8048957: eb 6c jmp 80489c5 <\_\_vprintf+0x4e4>

8048959: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

804895c: 8b 5d 04 mov ebx,DWORD PTR [ebp+0x4]

804895f: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

8048963: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

8048967: 89 f3 mov ebx,esi

8048969: 8d 6d 08 lea ebp,[ebp+0x8]

804896c: eb 57 jmp 80489c5 <\_\_vprintf+0x4e4>

804896e: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

8048971: bb 00 00 00 00 mov ebx,0x0

8048976: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

804897a: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

804897e: 89 f3 mov ebx,esi

8048980: 8d 6d 04 lea ebp,[ebp+0x4]

8048983: eb 40 jmp 80489c5 <\_\_vprintf+0x4e4>

8048985: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

8048988: 8b 5d 04 mov ebx,DWORD PTR [ebp+0x4]

804898b: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

804898f: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

8048993: 89 f3 mov ebx,esi

8048995: 8d 6d 08 lea ebp,[ebp+0x8]

8048998: eb 2b jmp 80489c5 <\_\_vprintf+0x4e4>

804899a: 8b 7d 00 mov edi,DWORD PTR [ebp+0x0]

804899d: 89 7c 24 18 mov DWORD PTR [esp+0x18],edi

80489a1: c7 44 24 1c 00 00 00 mov DWORD PTR [esp+0x1c],0x0

80489a8: 00

80489a9: 89 f3 mov ebx,esi

80489ab: 8d 6d 04 lea ebp,[ebp+0x4]

80489ae: eb 15 jmp 80489c5 <\_\_vprintf+0x4e4>

80489b0: 8b 4d 00 mov ecx,DWORD PTR [ebp+0x0]

80489b3: bb 00 00 00 00 mov ebx,0x0

80489b8: 89 4c 24 18 mov DWORD PTR [esp+0x18],ecx

80489bc: 89 5c 24 1c mov DWORD PTR [esp+0x1c],ebx

80489c0: 89 f3 mov ebx,esi

80489c2: 8d 6d 04 lea ebp,[ebp+0x4]

80489c5: 3c 6f cmp al,0x6f

80489c7: 74 3b je 8048a04 <\_\_vprintf+0x523>

80489c9: 3c 6f cmp al,0x6f

80489cb: 7f 06 jg 80489d3 <\_\_vprintf+0x4f2>

80489cd: 3c 58 cmp al,0x58

80489cf: 74 13 je 80489e4 <\_\_vprintf+0x503>

80489d1: eb 18 jmp 80489eb <\_\_vprintf+0x50a>

80489d3: 3c 75 cmp al,0x75

80489d5: 74 06 je 80489dd <\_\_vprintf+0x4fc>

80489d7: 3c 78 cmp al,0x78

80489d9: 74 30 je 8048a0b <\_\_vprintf+0x52a>

80489db: eb 0e jmp 80489eb <\_\_vprintf+0x50a>

80489dd: b8 f4 a2 04 08 mov eax,0x804a2f4

80489e2: eb 2c jmp 8048a10 <\_\_vprintf+0x52f>

80489e4: b8 c4 a2 04 08 mov eax,0x804a2c4

80489e9: eb 25 jmp 8048a10 <\_\_vprintf+0x52f>

80489eb: 68 50 a5 04 08 push 0x804a550

80489f0: 68 b8 a2 04 08 push 0x804a2b8

80489f5: 68 14 01 00 00 push 0x114

80489fa: 68 81 a3 04 08 push 0x804a381

80489ff: e8 41 0e 00 00 call 8049845 <debug\_panic>

8048a04: b8 e4 a2 04 08 mov eax,0x804a2e4

8048a09: eb 05 jmp 8048a10 <\_\_vprintf+0x52f>

8048a0b: b8 d4 a2 04 08 mov eax,0x804a2d4

8048a10: 83 ec 0c sub esp,0xc

8048a13: ff 74 24 78 push DWORD PTR [esp+0x78]

8048a17: ff 74 24 78 push DWORD PTR [esp+0x78]

8048a1b: 8d 7c 24 44 lea edi,[esp+0x44]

8048a1f: 57 push edi

8048a20: 50 push eax

8048a21: 6a 00 push 0x0

8048a23: b9 00 00 00 00 mov ecx,0x0

8048a28: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

8048a2c: 8b 54 24 3c mov edx,DWORD PTR [esp+0x3c]

8048a30: e8 f1 f6 ff ff call 8048126 <format\_integer>

8048a35: 83 c4 20 add esp,0x20

8048a38: e9 ed 00 00 00 jmp 8048b2a <\_\_vprintf+0x649>

8048a3d: 89 de mov esi,ebx

8048a3f: 8d 7d 04 lea edi,[ebp+0x4]

8048a42: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

8048a45: 88 44 24 2f mov BYTE PTR [esp+0x2f],al

8048a49: 83 ec 08 sub esp,0x8

8048a4c: ff 74 24 74 push DWORD PTR [esp+0x74]

8048a50: ff 74 24 74 push DWORD PTR [esp+0x74]

8048a54: 8d 4c 24 40 lea ecx,[esp+0x40]

8048a58: ba 01 00 00 00 mov edx,0x1

8048a5d: 8d 44 24 3f lea eax,[esp+0x3f]

8048a61: e8 b4 f9 ff ff call 804841a <format\_string>

8048a66: 83 c4 10 add esp,0x10

8048a69: 89 f3 mov ebx,esi

8048a6b: 89 fd mov ebp,edi

8048a6d: e9 b8 00 00 00 jmp 8048b2a <\_\_vprintf+0x649>

8048a72: 89 de mov esi,ebx

8048a74: 8d 7d 04 lea edi,[ebp+0x4]

8048a77: 8b 5d 00 mov ebx,DWORD PTR [ebp+0x0]

8048a7a: 85 db test ebx,ebx

8048a7c: b8 7a a3 04 08 mov eax,0x804a37a

8048a81: 0f 44 d8 cmove ebx,eax

8048a84: 83 ec 08 sub esp,0x8

8048a87: 51 push ecx

8048a88: 53 push ebx

8048a89: e8 d9 09 00 00 call 8049467 <strnlen>

8048a8e: 83 c4 08 add esp,0x8

8048a91: ff 74 24 74 push DWORD PTR [esp+0x74]

8048a95: ff 74 24 74 push DWORD PTR [esp+0x74]

8048a99: 8d 4c 24 40 lea ecx,[esp+0x40]

8048a9d: 89 c2 mov edx,eax

8048a9f: 89 d8 mov eax,ebx

8048aa1: e8 74 f9 ff ff call 804841a <format\_string>

8048aa6: 83 c4 10 add esp,0x10

8048aa9: 89 f3 mov ebx,esi

8048aab: 89 fd mov ebp,edi

8048aad: eb 7b jmp 8048b2a <\_\_vprintf+0x649>

8048aaf: 89 de mov esi,ebx

8048ab1: 8d 7d 04 lea edi,[ebp+0x4]

8048ab4: 8b 45 00 mov eax,DWORD PTR [ebp+0x0]

8048ab7: c7 44 24 30 08 00 00 mov DWORD PTR [esp+0x30],0x8

8048abe: 00

8048abf: ba 00 00 00 00 mov edx,0x0

8048ac4: 83 ec 0c sub esp,0xc

8048ac7: ff 74 24 78 push DWORD PTR [esp+0x78]

8048acb: ff 74 24 78 push DWORD PTR [esp+0x78]

8048acf: 8d 4c 24 44 lea ecx,[esp+0x44]

8048ad3: 51 push ecx

8048ad4: 68 d4 a2 04 08 push 0x804a2d4

8048ad9: 6a 00 push 0x0

8048adb: b9 00 00 00 00 mov ecx,0x0

8048ae0: e8 41 f6 ff ff call 8048126 <format\_integer>

8048ae5: 83 c4 20 add esp,0x20

8048ae8: 89 f3 mov ebx,esi

8048aea: 89 fd mov ebp,edi

8048aec: eb 3c jmp 8048b2a <\_\_vprintf+0x649>

8048aee: 89 de mov esi,ebx

8048af0: 0f be c0 movsx eax,al

8048af3: 50 push eax

8048af4: ff 74 24 70 push DWORD PTR [esp+0x70]

8048af8: ff 74 24 70 push DWORD PTR [esp+0x70]

8048afc: 68 90 a3 04 08 push 0x804a390

8048b01: e8 be f9 ff ff call 80484c4 <\_\_printf>

8048b06: 83 c4 10 add esp,0x10

8048b09: 89 f3 mov ebx,esi

8048b0b: eb 1d jmp 8048b2a <\_\_vprintf+0x649>

8048b0d: 89 de mov esi,ebx

8048b0f: 0f be c0 movsx eax,al

8048b12: 50 push eax

8048b13: ff 74 24 70 push DWORD PTR [esp+0x70]

8048b17: ff 74 24 70 push DWORD PTR [esp+0x70]

8048b1b: 68 a6 a3 04 08 push 0x804a3a6

8048b20: e8 9f f9 ff ff call 80484c4 <\_\_printf>

8048b25: 83 c4 10 add esp,0x10

8048b28: 89 f3 mov ebx,esi

8048b2a: 8d 73 01 lea esi,[ebx+0x1]

8048b2d: 0f b6 43 01 movzx eax,BYTE PTR [ebx+0x1]

8048b31: 84 c0 test al,al

8048b33: 0f 85 c2 f9 ff ff jne 80484fb <\_\_vprintf+0x1a>

8048b39: eb 09 jmp 8048b44 <\_\_vprintf+0x663>

8048b3b: 8b 4c 24 38 mov ecx,DWORD PTR [esp+0x38]

8048b3f: e9 4c fb ff ff jmp 8048690 <\_\_vprintf+0x1af>

8048b44: 83 c4 4c add esp,0x4c

8048b47: 5b pop ebx

8048b48: 5e pop esi

8048b49: 5f pop edi

8048b4a: 5d pop ebp

8048b4b: c3 ret

08048b4c <vsnprintf>:

8048b4c: 53 push ebx

8048b4d: 83 ec 18 sub esp,0x18

8048b50: 8b 44 24 24 mov eax,DWORD PTR [esp+0x24]

8048b54: 8b 54 24 28 mov edx,DWORD PTR [esp+0x28]

8048b58: 8b 4c 24 2c mov ecx,DWORD PTR [esp+0x2c]

8048b5c: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

8048b60: 89 5c 24 04 mov DWORD PTR [esp+0x4],ebx

8048b64: c7 44 24 08 00 00 00 mov DWORD PTR [esp+0x8],0x0

8048b6b: 00

8048b6c: 85 c0 test eax,eax

8048b6e: 74 24 je 8048b94 <vsnprintf+0x48>

8048b70: 83 e8 01 sub eax,0x1

8048b73: 89 44 24 0c mov DWORD PTR [esp+0xc],eax

8048b77: 8d 44 24 04 lea eax,[esp+0x4]

8048b7b: 50 push eax

8048b7c: 68 d7 80 04 08 push 0x80480d7

8048b81: 51 push ecx

8048b82: 52 push edx

8048b83: e8 59 f9 ff ff call 80484e1 <\_\_vprintf>

8048b88: 8b 44 24 14 mov eax,DWORD PTR [esp+0x14]

8048b8c: c6 00 00 mov BYTE PTR [eax],0x0

8048b8f: 83 c4 10 add esp,0x10

8048b92: eb 1c jmp 8048bb0 <vsnprintf+0x64>

8048b94: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

8048b9b: 00

8048b9c: 8d 44 24 04 lea eax,[esp+0x4]

8048ba0: 50 push eax

8048ba1: 68 d7 80 04 08 push 0x80480d7

8048ba6: 51 push ecx

8048ba7: 52 push edx

8048ba8: e8 34 f9 ff ff call 80484e1 <\_\_vprintf>

8048bad: 83 c4 10 add esp,0x10

8048bb0: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

8048bb4: 83 c4 18 add esp,0x18

8048bb7: 5b pop ebx

8048bb8: c3 ret

08048bb9 <snprintf>:

8048bb9: 83 ec 0c sub esp,0xc

8048bbc: 8d 44 24 1c lea eax,[esp+0x1c]

8048bc0: 50 push eax

8048bc1: ff 74 24 1c push DWORD PTR [esp+0x1c]

8048bc5: ff 74 24 1c push DWORD PTR [esp+0x1c]

8048bc9: ff 74 24 1c push DWORD PTR [esp+0x1c]

8048bcd: e8 7a ff ff ff call 8048b4c <vsnprintf>

8048bd2: 83 c4 1c add esp,0x1c

8048bd5: c3 ret

08048bd6 <hex\_dump>:

8048bd6: 55 push ebp

8048bd7: 57 push edi

8048bd8: 56 push esi

8048bd9: 53 push ebx

8048bda: 83 ec 1c sub esp,0x1c

8048bdd: 0f b6 44 24 3c movzx eax,BYTE PTR [esp+0x3c]

8048be2: 88 44 24 0f mov BYTE PTR [esp+0xf],al

8048be6: 83 7c 24 38 00 cmp DWORD PTR [esp+0x38],0x0

8048beb: 0f 84 cb 01 00 00 je 8048dbc <hex\_dump+0x1e6>

8048bf1: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

8048bf5: 83 e6 0f and esi,0xf

8048bf8: b8 10 00 00 00 mov eax,0x10

8048bfd: 29 f0 sub eax,esi

8048bff: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

8048c03: 3b 44 24 38 cmp eax,DWORD PTR [esp+0x38]

8048c07: 0f 86 6e 01 00 00 jbe 8048d7b <hex\_dump+0x1a5>

8048c0d: 89 f7 mov edi,esi

8048c0f: 03 7c 24 38 add edi,DWORD PTR [esp+0x38]

8048c13: 83 ec 04 sub esp,0x4

8048c16: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

8048c1a: 83 e0 f0 and eax,0xfffffff0

8048c1d: ba 00 00 00 00 mov edx,0x0

8048c22: 52 push edx

8048c23: 50 push eax

8048c24: 68 bd a3 04 08 push 0x804a3bd

8048c29: e8 7e f8 ff ff call 80484ac <printf>

8048c2e: 83 c4 10 add esp,0x10

8048c31: 85 f6 test esi,esi

8048c33: 74 26 je 8048c5b <hex\_dump+0x85>

8048c35: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

8048c39: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

8048c3d: bb 00 00 00 00 mov ebx,0x0

8048c42: 83 ec 0c sub esp,0xc

8048c45: 68 c5 a3 04 08 push 0x804a3c5

8048c4a: e8 5d f8 ff ff call 80484ac <printf>

8048c4f: 83 c3 01 add ebx,0x1

8048c52: 83 c4 10 add esp,0x10

8048c55: 39 de cmp esi,ebx

8048c57: 77 e9 ja 8048c42 <hex\_dump+0x6c>

8048c59: eb 0a jmp 8048c65 <hex\_dump+0x8f>

8048c5b: 8b 44 24 38 mov eax,DWORD PTR [esp+0x38]

8048c5f: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

8048c63: 89 f3 mov ebx,esi

8048c65: 39 df cmp edi,ebx

8048c67: 76 34 jbe 8048c9d <hex\_dump+0xc7>

8048c69: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

8048c6d: 29 f5 sub ebp,esi

8048c6f: 83 fb 07 cmp ebx,0x7

8048c72: b8 20 00 00 00 mov eax,0x20

8048c77: b9 2d 00 00 00 mov ecx,0x2d

8048c7c: 0f 44 c1 cmove eax,ecx

8048c7f: 83 ec 04 sub esp,0x4

8048c82: 50 push eax

8048c83: 0f b6 44 1d 00 movzx eax,BYTE PTR [ebp+ebx\*1+0x0]

8048c88: 50 push eax

8048c89: 68 c9 a3 04 08 push 0x804a3c9

8048c8e: e8 19 f8 ff ff call 80484ac <printf>

8048c93: 83 c3 01 add ebx,0x1

8048c96: 83 c4 10 add esp,0x10

8048c99: 39 fb cmp ebx,edi

8048c9b: 72 d2 jb 8048c6f <hex\_dump+0x99>

8048c9d: 80 7c 24 0f 00 cmp BYTE PTR [esp+0xf],0x0

8048ca2: 0f 84 ae 00 00 00 je 8048d56 <hex\_dump+0x180>

8048ca8: 83 fb 0f cmp ebx,0xf

8048cab: 77 18 ja 8048cc5 <hex\_dump+0xef>

8048cad: 83 ec 0c sub esp,0xc

8048cb0: 68 c5 a3 04 08 push 0x804a3c5

8048cb5: e8 f2 f7 ff ff call 80484ac <printf>

8048cba: 83 c3 01 add ebx,0x1

8048cbd: 83 c4 10 add esp,0x10

8048cc0: 83 fb 10 cmp ebx,0x10

8048cc3: 75 e8 jne 8048cad <hex\_dump+0xd7>

8048cc5: 83 ec 0c sub esp,0xc

8048cc8: 6a 7c push 0x7c

8048cca: e8 6b 0d 00 00 call 8049a3a <putchar>

8048ccf: 83 c4 10 add esp,0x10

8048cd2: 85 f6 test esi,esi

8048cd4: 0f 84 d3 00 00 00 je 8048dad <hex\_dump+0x1d7>

8048cda: bb 00 00 00 00 mov ebx,0x0

8048cdf: 83 ec 0c sub esp,0xc

8048ce2: 6a 20 push 0x20

8048ce4: e8 51 0d 00 00 call 8049a3a <putchar>

8048ce9: 83 c3 01 add ebx,0x1

8048cec: 83 c4 10 add esp,0x10

8048cef: 39 de cmp esi,ebx

8048cf1: 75 ec jne 8048cdf <hex\_dump+0x109>

8048cf3: 39 fe cmp esi,edi

8048cf5: 73 36 jae 8048d2d <hex\_dump+0x157>

8048cf7: 89 f3 mov ebx,esi

8048cf9: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

8048cfd: 29 f5 sub ebp,esi

8048cff: be 2e 00 00 00 mov esi,0x2e

8048d04: 0f b6 44 1d 00 movzx eax,BYTE PTR [ebp+ebx\*1+0x0]

8048d09: 0f b6 d0 movzx edx,al

8048d0c: 83 ea 20 sub edx,0x20

8048d0f: 0f b6 c0 movzx eax,al

8048d12: 83 fa 5e cmp edx,0x5e

8048d15: 0f 47 c6 cmova eax,esi

8048d18: 83 ec 0c sub esp,0xc

8048d1b: 50 push eax

8048d1c: e8 19 0d 00 00 call 8049a3a <putchar>

8048d21: 83 c3 01 add ebx,0x1

8048d24: 83 c4 10 add esp,0x10

8048d27: 39 fb cmp ebx,edi

8048d29: 72 d9 jb 8048d04 <hex\_dump+0x12e>

8048d2b: eb 02 jmp 8048d2f <hex\_dump+0x159>

8048d2d: 89 f3 mov ebx,esi

8048d2f: 83 fb 0f cmp ebx,0xf

8048d32: 77 15 ja 8048d49 <hex\_dump+0x173>

8048d34: 83 ec 0c sub esp,0xc

8048d37: 6a 20 push 0x20

8048d39: e8 fc 0c 00 00 call 8049a3a <putchar>

8048d3e: 83 c3 01 add ebx,0x1

8048d41: 83 c4 10 add esp,0x10

8048d44: 83 fb 0f cmp ebx,0xf

8048d47: 76 eb jbe 8048d34 <hex\_dump+0x15e>

8048d49: 83 ec 0c sub esp,0xc

8048d4c: 6a 7c push 0x7c

8048d4e: e8 e7 0c 00 00 call 8049a3a <putchar>

8048d53: 83 c4 10 add esp,0x10

8048d56: 83 ec 0c sub esp,0xc

8048d59: 6a 0a push 0xa

8048d5b: e8 da 0c 00 00 call 8049a3a <putchar>

8048d60: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

8048d64: 01 44 24 40 add DWORD PTR [esp+0x40],eax

8048d68: 01 44 24 44 add DWORD PTR [esp+0x44],eax

8048d6c: 83 c4 10 add esp,0x10

8048d6f: 29 44 24 38 sub DWORD PTR [esp+0x38],eax

8048d73: 0f 85 78 fe ff ff jne 8048bf1 <hex\_dump+0x1b>

8048d79: eb 41 jmp 8048dbc <hex\_dump+0x1e6>

8048d7b: 83 ec 04 sub esp,0x4

8048d7e: 8b 44 24 34 mov eax,DWORD PTR [esp+0x34]

8048d82: 83 e0 f0 and eax,0xfffffff0

8048d85: ba 00 00 00 00 mov edx,0x0

8048d8a: 52 push edx

8048d8b: 50 push eax

8048d8c: 68 bd a3 04 08 push 0x804a3bd

8048d91: e8 16 f7 ff ff call 80484ac <printf>

8048d96: 83 c4 10 add esp,0x10

8048d99: bf 10 00 00 00 mov edi,0x10

8048d9e: 89 f3 mov ebx,esi

8048da0: 85 f6 test esi,esi

8048da2: 0f 84 c1 fe ff ff je 8048c69 <hex\_dump+0x93>

8048da8: e9 90 fe ff ff jmp 8048c3d <hex\_dump+0x67>

8048dad: 89 f3 mov ebx,esi

8048daf: 85 ff test edi,edi

8048db1: 0f 85 42 ff ff ff jne 8048cf9 <hex\_dump+0x123>

8048db7: e9 78 ff ff ff jmp 8048d34 <hex\_dump+0x15e>

8048dbc: 83 c4 1c add esp,0x1c

8048dbf: 5b pop ebx

8048dc0: 5e pop esi

8048dc1: 5f pop edi

8048dc2: 5d pop ebp

8048dc3: c3 ret

08048dc4 <print\_human\_readable\_size>:

8048dc4: 57 push edi

8048dc5: 56 push esi

8048dc6: 83 ec 04 sub esp,0x4

8048dc9: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

8048dcd: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

8048dd1: 89 f0 mov eax,esi

8048dd3: 83 f0 01 xor eax,0x1

8048dd6: 09 f8 or eax,edi

8048dd8: 74 22 je 8048dfc <print\_human\_readable\_size+0x3

8>

8048dda: 83 ff 00 cmp edi,0x0

8048ddd: 77 0d ja 8048dec <print\_human\_readable\_size+0x2

8>

8048ddf: b9 38 b6 04 08 mov ecx,0x804b638

8048de4: 81 fe ff 03 00 00 cmp esi,0x3ff

8048dea: 76 46 jbe 8048e32 <print\_human\_readable\_size+0x6

e>

8048dec: b9 38 b6 04 08 mov ecx,0x804b638

8048df1: 83 3d 3c b6 04 08 00 cmp DWORD PTR ds:0x804b63c,0x0

8048df8: 75 14 jne 8048e0e <print\_human\_readable\_size+0x4

a>

8048dfa: eb 36 jmp 8048e32 <print\_human\_readable\_size+0x6

e>

8048dfc: 83 ec 0c sub esp,0xc

8048dff: 68 d2 a3 04 08 push 0x804a3d2

8048e04: e8 a3 f6 ff ff call 80484ac <printf>

8048e09: 83 c4 10 add esp,0x10

8048e0c: eb 35 jmp 8048e43 <print\_human\_readable\_size+0x7

f>

8048e0e: 89 f0 mov eax,esi

8048e10: 89 fa mov edx,edi

8048e12: 0f ac f8 0a shrd eax,edi,0xa

8048e16: c1 ea 0a shr edx,0xa

8048e19: 89 c6 mov esi,eax

8048e1b: 89 d7 mov edi,edx

8048e1d: 83 c1 04 add ecx,0x4

8048e20: 83 fa 00 cmp edx,0x0

8048e23: 77 07 ja 8048e2c <print\_human\_readable\_size+0x6

8>

8048e25: 3d ff 03 00 00 cmp eax,0x3ff

8048e2a: 76 06 jbe 8048e32 <print\_human\_readable\_size+0x6

e>

8048e2c: 83 79 04 00 cmp DWORD PTR [ecx+0x4],0x0

8048e30: 75 dc jne 8048e0e <print\_human\_readable\_size+0x4

a>

8048e32: ff 31 push DWORD PTR [ecx]

8048e34: 57 push edi

8048e35: 56 push esi

8048e36: 68 d9 a3 04 08 push 0x804a3d9

8048e3b: e8 6c f6 ff ff call 80484ac <printf>

8048e40: 83 c4 10 add esp,0x10

8048e43: 83 c4 04 add esp,0x4

8048e46: 5e pop esi

8048e47: 5f pop edi

8048e48: c3 ret

08048e49 <memcpy>:

8048e49: 56 push esi

8048e4a: 53 push ebx

8048e4b: 83 ec 04 sub esp,0x4

8048e4e: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

8048e52: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

8048e56: 8b 5c 24 18 mov ebx,DWORD PTR [esp+0x18]

8048e5a: 85 db test ebx,ebx

8048e5c: 0f 94 c2 sete dl

8048e5f: 85 c0 test eax,eax

8048e61: 75 22 jne 8048e85 <memcpy+0x3c>

8048e63: 84 d2 test dl,dl

8048e65: 75 1e jne 8048e85 <memcpy+0x3c>

8048e67: 83 ec 0c sub esp,0xc

8048e6a: 68 29 a4 04 08 push 0x804a429

8048e6f: 68 42 a4 04 08 push 0x804a442

8048e74: 68 58 a3 04 08 push 0x804a358

8048e79: 6a 0c push 0xc

8048e7b: 68 59 a4 04 08 push 0x804a459

8048e80: e8 c0 09 00 00 call 8049845 <debug\_panic>

8048e85: 85 f6 test esi,esi

8048e87: 75 04 jne 8048e8d <memcpy+0x44>

8048e89: 84 d2 test dl,dl

8048e8b: 74 0b je 8048e98 <memcpy+0x4f>

8048e8d: ba 00 00 00 00 mov edx,0x0

8048e92: 85 db test ebx,ebx

8048e94: 75 20 jne 8048eb6 <memcpy+0x6d>

8048e96: eb 2c jmp 8048ec4 <memcpy+0x7b>

8048e98: 83 ec 0c sub esp,0xc

8048e9b: 68 69 a4 04 08 push 0x804a469

8048ea0: 68 42 a4 04 08 push 0x804a442

8048ea5: 68 58 a3 04 08 push 0x804a358

8048eaa: 6a 0d push 0xd

8048eac: 68 59 a4 04 08 push 0x804a459

8048eb1: e8 8f 09 00 00 call 8049845 <debug\_panic>

8048eb6: 0f b6 0c 16 movzx ecx,BYTE PTR [esi+edx\*1]

8048eba: 88 0c 10 mov BYTE PTR [eax+edx\*1],cl

8048ebd: 83 c2 01 add edx,0x1

8048ec0: 39 da cmp edx,ebx

8048ec2: 75 f2 jne 8048eb6 <memcpy+0x6d>

8048ec4: 83 c4 04 add esp,0x4

8048ec7: 5b pop ebx

8048ec8: 5e pop esi

8048ec9: c3 ret

08048eca <memmove>:

8048eca: 57 push edi

8048ecb: 56 push esi

8048ecc: 53 push ebx

8048ecd: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

8048ed1: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

8048ed5: 8b 7c 24 18 mov edi,DWORD PTR [esp+0x18]

8048ed9: 85 ff test edi,edi

8048edb: 0f 94 c2 sete dl

8048ede: 85 c0 test eax,eax

8048ee0: 75 22 jne 8048f04 <memmove+0x3a>

8048ee2: 84 d2 test dl,dl

8048ee4: 75 1e jne 8048f04 <memmove+0x3a>

8048ee6: 83 ec 0c sub esp,0xc

8048ee9: 68 29 a4 04 08 push 0x804a429

8048eee: 68 42 a4 04 08 push 0x804a442

8048ef3: 68 50 a3 04 08 push 0x804a350

8048ef8: 6a 1d push 0x1d

8048efa: 68 59 a4 04 08 push 0x804a459

8048eff: e8 41 09 00 00 call 8049845 <debug\_panic>

8048f04: 85 db test ebx,ebx

8048f06: 75 22 jne 8048f2a <memmove+0x60>

8048f08: 84 d2 test dl,dl

8048f0a: 75 1e jne 8048f2a <memmove+0x60>

8048f0c: 83 ec 0c sub esp,0xc

8048f0f: 68 69 a4 04 08 push 0x804a469

8048f14: 68 42 a4 04 08 push 0x804a442

8048f19: 68 50 a3 04 08 push 0x804a350

8048f1e: 6a 1e push 0x1e

8048f20: 68 59 a4 04 08 push 0x804a459

8048f25: e8 1b 09 00 00 call 8049845 <debug\_panic>

8048f2a: 39 d8 cmp eax,ebx

8048f2c: 73 1b jae 8048f49 <memmove+0x7f>

8048f2e: 85 ff test edi,edi

8048f30: 74 38 je 8048f6a <memmove+0xa0>

8048f32: ba 00 00 00 00 mov edx,0x0

8048f37: 0f b6 0c 13 movzx ecx,BYTE PTR [ebx+edx\*1]

8048f3b: 88 0c 10 mov BYTE PTR [eax+edx\*1],cl

8048f3e: 83 c2 01 add edx,0x1

8048f41: 39 fa cmp edx,edi

8048f43: 75 f2 jne 8048f37 <memmove+0x6d>

8048f45: 01 f8 add eax,edi

8048f47: eb 21 jmp 8048f6a <memmove+0xa0>

8048f49: 8d 34 38 lea esi,[eax+edi\*1]

8048f4c: 8d 57 ff lea edx,[edi-0x1]

8048f4f: 85 ff test edi,edi

8048f51: 74 15 je 8048f68 <memmove+0x9e>

8048f53: 89 f0 mov eax,esi

8048f55: 29 f8 sub eax,edi

8048f57: 0f b6 0c 13 movzx ecx,BYTE PTR [ebx+edx\*1]

8048f5b: 88 0c 10 mov BYTE PTR [eax+edx\*1],cl

8048f5e: 83 ea 01 sub edx,0x1

8048f61: 83 fa ff cmp edx,0xffffffff

8048f64: 75 ed jne 8048f53 <memmove+0x89>

8048f66: eb 02 jmp 8048f6a <memmove+0xa0>

8048f68: 89 f0 mov eax,esi

8048f6a: 5b pop ebx

8048f6b: 5e pop esi

8048f6c: 5f pop edi

8048f6d: c3 ret

08048f6e <memcmp>:

8048f6e: 57 push edi

8048f6f: 56 push esi

8048f70: 53 push ebx

8048f71: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

8048f75: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

8048f79: 8b 44 24 18 mov eax,DWORD PTR [esp+0x18]

8048f7d: 85 c0 test eax,eax

8048f7f: 0f 94 c2 sete dl

8048f82: 85 db test ebx,ebx

8048f84: 75 22 jne 8048fa8 <memcmp+0x3a>

8048f86: 84 d2 test dl,dl

8048f88: 75 1e jne 8048fa8 <memcmp+0x3a>

8048f8a: 83 ec 0c sub esp,0xc

8048f8d: 68 82 a4 04 08 push 0x804a482

8048f92: 68 42 a4 04 08 push 0x804a442

8048f97: 68 48 a3 04 08 push 0x804a348

8048f9c: 6a 3a push 0x3a

8048f9e: 68 59 a4 04 08 push 0x804a459

8048fa3: e8 9d 08 00 00 call 8049845 <debug\_panic>

8048fa8: 85 f6 test esi,esi

8048faa: 75 04 jne 8048fb0 <memcmp+0x42>

8048fac: 84 d2 test dl,dl

8048fae: 74 18 je 8048fc8 <memcmp+0x5a>

8048fb0: 8d 78 ff lea edi,[eax-0x1]

8048fb3: 85 c0 test eax,eax

8048fb5: 74 56 je 804900d <memcmp+0x9f>

8048fb7: 0f b6 13 movzx edx,BYTE PTR [ebx]

8048fba: 0f b6 0e movzx ecx,BYTE PTR [esi]

8048fbd: 38 ca cmp dl,cl

8048fbf: 75 35 jne 8048ff6 <memcmp+0x88>

8048fc1: b8 00 00 00 00 mov eax,0x0

8048fc6: eb 3a jmp 8049002 <memcmp+0x94>

8048fc8: 83 ec 0c sub esp,0xc

8048fcb: 68 99 a4 04 08 push 0x804a499

8048fd0: 68 42 a4 04 08 push 0x804a442

8048fd5: 68 48 a3 04 08 push 0x804a348

8048fda: 6a 3b push 0x3b

8048fdc: 68 59 a4 04 08 push 0x804a459

8048fe1: e8 5f 08 00 00 call 8049845 <debug\_panic>

8048fe6: 0f b6 54 03 01 movzx edx,BYTE PTR [ebx+eax\*1+0x1]

8048feb: 83 c0 01 add eax,0x1

8048fee: 0f b6 0c 06 movzx ecx,BYTE PTR [esi+eax\*1]

8048ff2: 38 ca cmp dl,cl

8048ff4: 74 0c je 8049002 <memcmp+0x94>

8048ff6: 38 d1 cmp cl,dl

8048ff8: 19 c0 sbb eax,eax

8048ffa: 83 e0 02 and eax,0x2

8048ffd: 83 e8 01 sub eax,0x1

8049000: eb 10 jmp 8049012 <memcmp+0xa4>

8049002: 39 f8 cmp eax,edi

8049004: 75 e0 jne 8048fe6 <memcmp+0x78>

8049006: b8 00 00 00 00 mov eax,0x0

804900b: eb 05 jmp 8049012 <memcmp+0xa4>

804900d: b8 00 00 00 00 mov eax,0x0

8049012: 5b pop ebx

8049013: 5e pop esi

8049014: 5f pop edi

8049015: c3 ret

08049016 <strcmp>:

8049016: 83 ec 0c sub esp,0xc

8049019: 8b 4c 24 10 mov ecx,DWORD PTR [esp+0x10]

804901d: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

8049021: 85 c9 test ecx,ecx

8049023: 75 1e jne 8049043 <strcmp+0x2d>

8049025: 83 ec 0c sub esp,0xc

8049028: 68 b0 a4 04 08 push 0x804a4b0

804902d: 68 42 a4 04 08 push 0x804a442

8049032: 68 40 a3 04 08 push 0x804a340

8049037: 6a 4e push 0x4e

8049039: 68 59 a4 04 08 push 0x804a459

804903e: e8 02 08 00 00 call 8049845 <debug\_panic>

8049043: 85 d2 test edx,edx

8049045: 74 0d je 8049054 <strcmp+0x3e>

8049047: 0f b6 01 movzx eax,BYTE PTR [ecx]

804904a: 84 c0 test al,al

804904c: 74 35 je 8049083 <strcmp+0x6d>

804904e: 3a 02 cmp al,BYTE PTR [edx]

8049050: 74 20 je 8049072 <strcmp+0x5c>

8049052: eb 2f jmp 8049083 <strcmp+0x6d>

8049054: 83 ec 0c sub esp,0xc

8049057: 68 ba a4 04 08 push 0x804a4ba

804905c: 68 42 a4 04 08 push 0x804a442

8049061: 68 40 a3 04 08 push 0x804a340

8049066: 6a 4f push 0x4f

8049068: 68 59 a4 04 08 push 0x804a459

804906d: e8 d3 07 00 00 call 8049845 <debug\_panic>

8049072: 83 c1 01 add ecx,0x1

8049075: 83 c2 01 add edx,0x1

8049078: 0f b6 01 movzx eax,BYTE PTR [ecx]

804907b: 84 c0 test al,al

804907d: 74 04 je 8049083 <strcmp+0x6d>

804907f: 3a 02 cmp al,BYTE PTR [edx]

8049081: 74 ef je 8049072 <strcmp+0x5c>

8049083: 0f b6 12 movzx edx,BYTE PTR [edx]

8049086: 38 c2 cmp dl,al

8049088: 77 08 ja 8049092 <strcmp+0x7c>

804908a: 0f 92 c0 setb al

804908d: 0f b6 c0 movzx eax,al

8049090: eb 05 jmp 8049097 <strcmp+0x81>

8049092: b8 ff ff ff ff mov eax,0xffffffff

8049097: 83 c4 0c add esp,0xc

804909a: c3 ret

0804909b <memchr>:

804909b: 53 push ebx

804909c: 83 ec 08 sub esp,0x8

804909f: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

80490a3: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

80490a7: 8b 4c 24 18 mov ecx,DWORD PTR [esp+0x18]

80490ab: 89 d3 mov ebx,edx

80490ad: 85 c0 test eax,eax

80490af: 75 04 jne 80490b5 <memchr+0x1a>

80490b1: 85 c9 test ecx,ecx

80490b3: 75 0f jne 80490c4 <memchr+0x29>

80490b5: 85 c9 test ecx,ecx

80490b7: 74 3e je 80490f7 <memchr+0x5c>

80490b9: 3a 10 cmp dl,BYTE PTR [eax]

80490bb: 74 3f je 80490fc <memchr+0x61>

80490bd: 8d 50 01 lea edx,[eax+0x1]

80490c0: 01 c1 add ecx,eax

80490c2: eb 26 jmp 80490ea <memchr+0x4f>

80490c4: 83 ec 0c sub esp,0xc

80490c7: 68 c4 a4 04 08 push 0x804a4c4

80490cc: 68 42 a4 04 08 push 0x804a442

80490d1: 68 38 a3 04 08 push 0x804a338

80490d6: 6a 63 push 0x63

80490d8: 68 59 a4 04 08 push 0x804a459

80490dd: e8 63 07 00 00 call 8049845 <debug\_panic>

80490e2: 83 c2 01 add edx,0x1

80490e5: 3a 5a ff cmp bl,BYTE PTR [edx-0x1]

80490e8: 74 12 je 80490fc <memchr+0x61>

80490ea: 89 d0 mov eax,edx

80490ec: 39 ca cmp edx,ecx

80490ee: 75 f2 jne 80490e2 <memchr+0x47>

80490f0: b8 00 00 00 00 mov eax,0x0

80490f5: eb 05 jmp 80490fc <memchr+0x61>

80490f7: b8 00 00 00 00 mov eax,0x0

80490fc: 83 c4 08 add esp,0x8

80490ff: 5b pop ebx

8049100: c3 ret

08049101 <strchr>:

8049101: 53 push ebx

8049102: 83 ec 08 sub esp,0x8

8049105: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

8049109: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

804910d: 85 c0 test eax,eax

804910f: 74 0b je 804911c <strchr+0x1b>

8049111: 89 d1 mov ecx,edx

8049113: 0f b6 18 movzx ebx,BYTE PTR [eax]

8049116: 38 da cmp dl,bl

8049118: 75 20 jne 804913a <strchr+0x39>

804911a: eb 40 jmp 804915c <strchr+0x5b>

804911c: 83 ec 0c sub esp,0xc

804911f: 68 df a4 04 08 push 0x804a4df

8049124: 68 42 a4 04 08 push 0x804a442

8049129: 68 30 a3 04 08 push 0x804a330

804912e: 6a 75 push 0x75

8049130: 68 59 a4 04 08 push 0x804a459

8049135: e8 0b 07 00 00 call 8049845 <debug\_panic>

804913a: 84 db test bl,bl

804913c: 75 06 jne 8049144 <strchr+0x43>

804913e: eb 10 jmp 8049150 <strchr+0x4f>

8049140: 84 d2 test dl,dl

8049142: 74 13 je 8049157 <strchr+0x56>

8049144: 83 c0 01 add eax,0x1

8049147: 0f b6 10 movzx edx,BYTE PTR [eax]

804914a: 38 d1 cmp cl,dl

804914c: 75 f2 jne 8049140 <strchr+0x3f>

804914e: eb 0c jmp 804915c <strchr+0x5b>

8049150: b8 00 00 00 00 mov eax,0x0

8049155: eb 05 jmp 804915c <strchr+0x5b>

8049157: b8 00 00 00 00 mov eax,0x0

804915c: 83 c4 08 add esp,0x8

804915f: 5b pop ebx

8049160: c3 ret

08049161 <strcspn>:

8049161: 57 push edi

8049162: 56 push esi

8049163: 53 push ebx

8049164: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

8049168: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

804916c: 0f b6 06 movzx eax,BYTE PTR [esi]

804916f: 84 c0 test al,al

8049171: 74 26 je 8049199 <strcspn+0x38>

8049173: bb 00 00 00 00 mov ebx,0x0

8049178: 83 ec 08 sub esp,0x8

804917b: 0f be c0 movsx eax,al

804917e: 50 push eax

804917f: 57 push edi

8049180: e8 7c ff ff ff call 8049101 <strchr>

8049185: 83 c4 10 add esp,0x10

8049188: 85 c0 test eax,eax

804918a: 75 12 jne 804919e <strcspn+0x3d>

804918c: 83 c3 01 add ebx,0x1

804918f: 0f b6 04 1e movzx eax,BYTE PTR [esi+ebx\*1]

8049193: 84 c0 test al,al

8049195: 75 e1 jne 8049178 <strcspn+0x17>

8049197: eb 05 jmp 804919e <strcspn+0x3d>

8049199: bb 00 00 00 00 mov ebx,0x0

804919e: 89 d8 mov eax,ebx

80491a0: 5b pop ebx

80491a1: 5e pop esi

80491a2: 5f pop edi

80491a3: c3 ret

080491a4 <strpbrk>:

80491a4: 56 push esi

80491a5: 53 push ebx

80491a6: 83 ec 04 sub esp,0x4

80491a9: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

80491ad: 8b 74 24 14 mov esi,DWORD PTR [esp+0x14]

80491b1: 0f b6 13 movzx edx,BYTE PTR [ebx]

80491b4: 84 d2 test dl,dl

80491b6: 74 20 je 80491d8 <strpbrk+0x34>

80491b8: 83 ec 08 sub esp,0x8

80491bb: 0f be d2 movsx edx,dl

80491be: 52 push edx

80491bf: 56 push esi

80491c0: e8 3c ff ff ff call 8049101 <strchr>

80491c5: 83 c4 10 add esp,0x10

80491c8: 85 c0 test eax,eax

80491ca: 75 13 jne 80491df <strpbrk+0x3b>

80491cc: 83 c3 01 add ebx,0x1

80491cf: 0f b6 13 movzx edx,BYTE PTR [ebx]

80491d2: 84 d2 test dl,dl

80491d4: 75 e2 jne 80491b8 <strpbrk+0x14>

80491d6: eb 09 jmp 80491e1 <strpbrk+0x3d>

80491d8: b8 00 00 00 00 mov eax,0x0

80491dd: eb 02 jmp 80491e1 <strpbrk+0x3d>

80491df: 89 d8 mov eax,ebx

80491e1: 83 c4 04 add esp,0x4

80491e4: 5b pop ebx

80491e5: 5e pop esi

80491e6: c3 ret

080491e7 <strrchr>:

80491e7: 53 push ebx

80491e8: 8b 54 24 08 mov edx,DWORD PTR [esp+0x8]

80491ec: 0f b6 5c 24 0c movzx ebx,BYTE PTR [esp+0xc]

80491f1: 0f b6 0a movzx ecx,BYTE PTR [edx]

80491f4: 84 c9 test cl,cl

80491f6: 74 16 je 804920e <strrchr+0x27>

80491f8: b8 00 00 00 00 mov eax,0x0

80491fd: 38 cb cmp bl,cl

80491ff: 0f 44 c2 cmove eax,edx

8049202: 83 c2 01 add edx,0x1

8049205: 0f b6 0a movzx ecx,BYTE PTR [edx]

8049208: 84 c9 test cl,cl

804920a: 75 f1 jne 80491fd <strrchr+0x16>

804920c: eb 05 jmp 8049213 <strrchr+0x2c>

804920e: b8 00 00 00 00 mov eax,0x0

8049213: 5b pop ebx

8049214: c3 ret

08049215 <strspn>:

8049215: 57 push edi

8049216: 56 push esi

8049217: 53 push ebx

8049218: 8b 74 24 10 mov esi,DWORD PTR [esp+0x10]

804921c: 8b 7c 24 14 mov edi,DWORD PTR [esp+0x14]

8049220: 0f b6 06 movzx eax,BYTE PTR [esi]

8049223: 84 c0 test al,al

8049225: 74 26 je 804924d <strspn+0x38>

8049227: bb 00 00 00 00 mov ebx,0x0

804922c: 83 ec 08 sub esp,0x8

804922f: 0f be c0 movsx eax,al

8049232: 50 push eax

8049233: 57 push edi

8049234: e8 c8 fe ff ff call 8049101 <strchr>

8049239: 83 c4 10 add esp,0x10

804923c: 85 c0 test eax,eax

804923e: 74 12 je 8049252 <strspn+0x3d>

8049240: 83 c3 01 add ebx,0x1

8049243: 0f b6 04 1e movzx eax,BYTE PTR [esi+ebx\*1]

8049247: 84 c0 test al,al

8049249: 75 e1 jne 804922c <strspn+0x17>

804924b: eb 05 jmp 8049252 <strspn+0x3d>

804924d: bb 00 00 00 00 mov ebx,0x0

8049252: 89 d8 mov eax,ebx

8049254: 5b pop ebx

8049255: 5e pop esi

8049256: 5f pop edi

8049257: c3 ret

08049258 <strtok\_r>:

8049258: 55 push ebp

8049259: 57 push edi

804925a: 56 push esi

804925b: 53 push ebx

804925c: 83 ec 0c sub esp,0xc

804925f: 8b 5c 24 20 mov ebx,DWORD PTR [esp+0x20]

8049263: 8b 74 24 24 mov esi,DWORD PTR [esp+0x24]

8049267: 85 f6 test esi,esi

8049269: 75 21 jne 804928c <strtok\_r+0x34>

804926b: 83 ec 0c sub esp,0xc

804926e: 68 ee a4 04 08 push 0x804a4ee

8049273: 68 42 a4 04 08 push 0x804a442

8049278: 68 24 a3 04 08 push 0x804a324

804927d: 68 ef 00 00 00 push 0xef

8049282: 68 59 a4 04 08 push 0x804a459

8049287: e8 b9 05 00 00 call 8049845 <debug\_panic>

804928c: 83 7c 24 28 00 cmp DWORD PTR [esp+0x28],0x0

8049291: 75 21 jne 80492b4 <strtok\_r+0x5c>

8049293: 83 ec 0c sub esp,0xc

8049296: 68 01 a5 04 08 push 0x804a501

804929b: 68 42 a4 04 08 push 0x804a442

80492a0: 68 24 a3 04 08 push 0x804a324

80492a5: 68 f0 00 00 00 push 0xf0

80492aa: 68 59 a4 04 08 push 0x804a459

80492af: e8 91 05 00 00 call 8049845 <debug\_panic>

80492b4: 85 db test ebx,ebx

80492b6: 75 41 jne 80492f9 <strtok\_r+0xa1>

80492b8: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

80492bc: 8b 18 mov ebx,DWORD PTR [eax]

80492be: 85 db test ebx,ebx

80492c0: 75 37 jne 80492f9 <strtok\_r+0xa1>

80492c2: 83 ec 0c sub esp,0xc

80492c5: 68 f7 a4 04 08 push 0x804a4f7

80492ca: 68 42 a4 04 08 push 0x804a442

80492cf: 68 24 a3 04 08 push 0x804a324

80492d4: 68 f6 00 00 00 push 0xf6

80492d9: 68 59 a4 04 08 push 0x804a459

80492de: e8 62 05 00 00 call 8049845 <debug\_panic>

80492e3: 89 f8 mov eax,edi

80492e5: 84 c0 test al,al

80492e7: 75 0d jne 80492f6 <strtok\_r+0x9e>

80492e9: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

80492ed: 89 18 mov DWORD PTR [eax],ebx

80492ef: b8 00 00 00 00 mov eax,0x0

80492f4: eb 58 jmp 804934e <strtok\_r+0xf6>

80492f6: 83 c3 01 add ebx,0x1

80492f9: 0f b6 3b movzx edi,BYTE PTR [ebx]

80492fc: 83 ec 08 sub esp,0x8

80492ff: 89 f8 mov eax,edi

8049301: 0f be c0 movsx eax,al

8049304: 50 push eax

8049305: 56 push esi

8049306: e8 f6 fd ff ff call 8049101 <strchr>

804930b: 83 c4 10 add esp,0x10

804930e: 85 c0 test eax,eax

8049310: 75 d1 jne 80492e3 <strtok\_r+0x8b>

8049312: 89 df mov edi,ebx

8049314: 83 c7 01 add edi,0x1

8049317: 0f b6 2f movzx ebp,BYTE PTR [edi]

804931a: 83 ec 08 sub esp,0x8

804931d: 89 e8 mov eax,ebp

804931f: 0f be c0 movsx eax,al

8049322: 50 push eax

8049323: 56 push esi

8049324: e8 d8 fd ff ff call 8049101 <strchr>

8049329: 83 c4 10 add esp,0x10

804932c: 85 c0 test eax,eax

804932e: 74 e4 je 8049314 <strtok\_r+0xbc>

8049330: 89 e8 mov eax,ebp

8049332: 84 c0 test al,al

8049334: 74 10 je 8049346 <strtok\_r+0xee>

8049336: c6 07 00 mov BYTE PTR [edi],0x0

8049339: 83 c7 01 add edi,0x1

804933c: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

8049340: 89 38 mov DWORD PTR [eax],edi

8049342: 89 d8 mov eax,ebx

8049344: eb 08 jmp 804934e <strtok\_r+0xf6>

8049346: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

804934a: 89 38 mov DWORD PTR [eax],edi

804934c: 89 d8 mov eax,ebx

804934e: 83 c4 0c add esp,0xc

8049351: 5b pop ebx

8049352: 5e pop esi

8049353: 5f pop edi

8049354: 5d pop ebp

8049355: c3 ret

08049356 <memset>:

8049356: 56 push esi

8049357: 53 push ebx

8049358: 83 ec 04 sub esp,0x4

804935b: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

804935f: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

8049363: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

8049367: 85 c0 test eax,eax

8049369: 75 04 jne 804936f <memset+0x19>

804936b: 85 f6 test esi,esi

804936d: 75 0b jne 804937a <memset+0x24>

804936f: 8d 0c 30 lea ecx,[eax+esi\*1]

8049372: 89 c2 mov edx,eax

8049374: 85 f6 test esi,esi

8049376: 75 23 jne 804939b <memset+0x45>

8049378: eb 2b jmp 80493a5 <memset+0x4f>

804937a: 83 ec 0c sub esp,0xc

804937d: 68 29 a4 04 08 push 0x804a429

8049382: 68 42 a4 04 08 push 0x804a442

8049387: 68 1c a3 04 08 push 0x804a31c

804938c: 68 1b 01 00 00 push 0x11b

8049391: 68 59 a4 04 08 push 0x804a459

8049396: e8 aa 04 00 00 call 8049845 <debug\_panic>

804939b: 83 c2 01 add edx,0x1

804939e: 88 5a ff mov BYTE PTR [edx-0x1],bl

80493a1: 39 d1 cmp ecx,edx

80493a3: 75 f6 jne 804939b <memset+0x45>

80493a5: 83 c4 04 add esp,0x4

80493a8: 5b pop ebx

80493a9: 5e pop esi

80493aa: c3 ret

080493ab <strlen>:

80493ab: 83 ec 0c sub esp,0xc

80493ae: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

80493b2: 85 d2 test edx,edx

80493b4: 74 09 je 80493bf <strlen+0x14>

80493b6: 89 d0 mov eax,edx

80493b8: 80 3a 00 cmp BYTE PTR [edx],0x0

80493bb: 74 2d je 80493ea <strlen+0x3f>

80493bd: eb 21 jmp 80493e0 <strlen+0x35>

80493bf: 83 ec 0c sub esp,0xc

80493c2: 68 df a4 04 08 push 0x804a4df

80493c7: 68 42 a4 04 08 push 0x804a442

80493cc: 68 14 a3 04 08 push 0x804a314

80493d1: 68 29 01 00 00 push 0x129

80493d6: 68 59 a4 04 08 push 0x804a459

80493db: e8 65 04 00 00 call 8049845 <debug\_panic>

80493e0: 89 d0 mov eax,edx

80493e2: 83 c0 01 add eax,0x1

80493e5: 80 38 00 cmp BYTE PTR [eax],0x0

80493e8: 75 f8 jne 80493e2 <strlen+0x37>

80493ea: 29 d0 sub eax,edx

80493ec: 83 c4 0c add esp,0xc

80493ef: c3 ret

080493f0 <strstr>:

80493f0: 55 push ebp

80493f1: 57 push edi

80493f2: 56 push esi

80493f3: 53 push ebx

80493f4: 83 ec 1c sub esp,0x1c

80493f7: 8b 6c 24 34 mov ebp,DWORD PTR [esp+0x34]

80493fb: bb ff ff ff ff mov ebx,0xffffffff

8049400: b8 00 00 00 00 mov eax,0x0

8049405: 89 d9 mov ecx,ebx

8049407: 8b 7c 24 30 mov edi,DWORD PTR [esp+0x30]

804940b: f2 ae repnz scas al,BYTE PTR es:[edi]

804940d: f7 d1 not ecx

804940f: 8d 51 ff lea edx,[ecx-0x1]

8049412: 89 d9 mov ecx,ebx

8049414: 89 ef mov edi,ebp

8049416: f2 ae repnz scas al,BYTE PTR es:[edi]

8049418: 89 c8 mov eax,ecx

804941a: f7 d0 not eax

804941c: 8d 78 ff lea edi,[eax-0x1]

804941f: 39 fa cmp edx,edi

8049421: 72 33 jb 8049456 <strstr+0x66>

8049423: 29 fa sub edx,edi

8049425: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8049429: bb 00 00 00 00 mov ebx,0x0

804942e: 89 de mov esi,ebx

8049430: 03 74 24 30 add esi,DWORD PTR [esp+0x30]

8049434: 83 ec 04 sub esp,0x4

8049437: 57 push edi

8049438: 55 push ebp

8049439: 56 push esi

804943a: e8 2f fb ff ff call 8048f6e <memcmp>

804943f: 83 c4 10 add esp,0x10

8049442: 85 c0 test eax,eax

8049444: 74 17 je 804945d <strstr+0x6d>

8049446: 83 c3 01 add ebx,0x1

8049449: 3b 5c 24 0c cmp ebx,DWORD PTR [esp+0xc]

804944d: 76 df jbe 804942e <strstr+0x3e>

804944f: b8 00 00 00 00 mov eax,0x0

8049454: eb 09 jmp 804945f <strstr+0x6f>

8049456: b8 00 00 00 00 mov eax,0x0

804945b: eb 02 jmp 804945f <strstr+0x6f>

804945d: 89 f0 mov eax,esi

804945f: 83 c4 1c add esp,0x1c

8049462: 5b pop ebx

8049463: 5e pop esi

8049464: 5f pop edi

8049465: 5d pop ebp

8049466: c3 ret

08049467 <strnlen>:

8049467: 8b 54 24 04 mov edx,DWORD PTR [esp+0x4]

804946b: 8b 4c 24 08 mov ecx,DWORD PTR [esp+0x8]

804946f: 80 3a 00 cmp BYTE PTR [edx],0x0

8049472: 74 18 je 804948c <strnlen+0x25>

8049474: 85 c9 test ecx,ecx

8049476: 74 14 je 804948c <strnlen+0x25>

8049478: b8 00 00 00 00 mov eax,0x0

804947d: 83 c0 01 add eax,0x1

8049480: 80 3c 02 00 cmp BYTE PTR [edx+eax\*1],0x0

8049484: 74 0b je 8049491 <strnlen+0x2a>

8049486: 39 c1 cmp ecx,eax

8049488: 77 f3 ja 804947d <strnlen+0x16>

804948a: f3 c3 repz ret

804948c: b8 00 00 00 00 mov eax,0x0

8049491: f3 c3 repz ret

08049493 <strlcpy>:

8049493: 55 push ebp

8049494: 57 push edi

8049495: 56 push esi

8049496: 53 push ebx

8049497: 83 ec 0c sub esp,0xc

804949a: 8b 74 24 20 mov esi,DWORD PTR [esp+0x20]

804949e: 8b 6c 24 24 mov ebp,DWORD PTR [esp+0x24]

80494a2: 8b 54 24 28 mov edx,DWORD PTR [esp+0x28]

80494a6: 85 f6 test esi,esi

80494a8: 75 21 jne 80494cb <strlcpy+0x38>

80494aa: 83 ec 0c sub esp,0xc

80494ad: 68 12 a5 04 08 push 0x804a512

80494b2: 68 42 a4 04 08 push 0x804a442

80494b7: 68 0c a3 04 08 push 0x804a30c

80494bc: 68 4a 01 00 00 push 0x14a

80494c1: 68 59 a4 04 08 push 0x804a459

80494c6: e8 7a 03 00 00 call 8049845 <debug\_panic>

80494cb: 85 ed test ebp,ebp

80494cd: 75 21 jne 80494f0 <strlcpy+0x5d>

80494cf: 83 ec 0c sub esp,0xc

80494d2: 68 1e a5 04 08 push 0x804a51e

80494d7: 68 42 a4 04 08 push 0x804a442

80494dc: 68 0c a3 04 08 push 0x804a30c

80494e1: 68 4b 01 00 00 push 0x14b

80494e6: 68 59 a4 04 08 push 0x804a459

80494eb: e8 55 03 00 00 call 8049845 <debug\_panic>

80494f0: b8 00 00 00 00 mov eax,0x0

80494f5: b9 ff ff ff ff mov ecx,0xffffffff

80494fa: 89 ef mov edi,ebp

80494fc: f2 ae repnz scas al,BYTE PTR es:[edi]

80494fe: f7 d1 not ecx

8049500: 8d 59 ff lea ebx,[ecx-0x1]

8049503: 85 d2 test edx,edx

8049505: 74 1c je 8049523 <strlcpy+0x90>

8049507: 83 ea 01 sub edx,0x1

804950a: 39 d3 cmp ebx,edx

804950c: 89 d7 mov edi,edx

804950e: 0f 46 fb cmovbe edi,ebx

8049511: 83 ec 04 sub esp,0x4

8049514: 57 push edi

8049515: 55 push ebp

8049516: 56 push esi

8049517: e8 2d f9 ff ff call 8048e49 <memcpy>

804951c: c6 04 3e 00 mov BYTE PTR [esi+edi\*1],0x0

8049520: 83 c4 10 add esp,0x10

8049523: 89 d8 mov eax,ebx

8049525: 83 c4 0c add esp,0xc

8049528: 5b pop ebx

8049529: 5e pop esi

804952a: 5f pop edi

804952b: 5d pop ebp

804952c: c3 ret

0804952d <strlcat>:

804952d: 55 push ebp

804952e: 57 push edi

804952f: 56 push esi

8049530: 53 push ebx

8049531: 83 ec 0c sub esp,0xc

8049534: 8b 54 24 24 mov edx,DWORD PTR [esp+0x24]

8049538: 83 7c 24 20 00 cmp DWORD PTR [esp+0x20],0x0

804953d: 75 21 jne 8049560 <strlcat+0x33>

804953f: 83 ec 0c sub esp,0xc

8049542: 68 12 a5 04 08 push 0x804a512

8049547: 68 42 a4 04 08 push 0x804a442

804954c: 68 04 a3 04 08 push 0x804a304

8049551: 68 68 01 00 00 push 0x168

8049556: 68 59 a4 04 08 push 0x804a459

804955b: e8 e5 02 00 00 call 8049845 <debug\_panic>

8049560: 85 d2 test edx,edx

8049562: 75 21 jne 8049585 <strlcat+0x58>

8049564: 83 ec 0c sub esp,0xc

8049567: 68 1e a5 04 08 push 0x804a51e

804956c: 68 42 a4 04 08 push 0x804a442

8049571: 68 04 a3 04 08 push 0x804a304

8049576: 68 69 01 00 00 push 0x169

804957b: 68 59 a4 04 08 push 0x804a459

8049580: e8 c0 02 00 00 call 8049845 <debug\_panic>

8049585: be ff ff ff ff mov esi,0xffffffff

804958a: b8 00 00 00 00 mov eax,0x0

804958f: 89 f1 mov ecx,esi

8049591: 89 d7 mov edi,edx

8049593: f2 ae repnz scas al,BYTE PTR es:[edi]

8049595: f7 d1 not ecx

8049597: 8d 69 ff lea ebp,[ecx-0x1]

804959a: 89 f1 mov ecx,esi

804959c: 8b 7c 24 20 mov edi,DWORD PTR [esp+0x20]

80495a0: f2 ae repnz scas al,BYTE PTR es:[edi]

80495a2: 89 c8 mov eax,ecx

80495a4: f7 d0 not eax

80495a6: 8d 58 ff lea ebx,[eax-0x1]

80495a9: 83 7c 24 28 00 cmp DWORD PTR [esp+0x28],0x0

80495ae: 74 2c je 80495dc <strlcat+0xaf>

80495b0: 3b 5c 24 28 cmp ebx,DWORD PTR [esp+0x28]

80495b4: 73 26 jae 80495dc <strlcat+0xaf>

80495b6: 8b 44 24 28 mov eax,DWORD PTR [esp+0x28]

80495ba: 8d 70 ff lea esi,[eax-0x1]

80495bd: 29 de sub esi,ebx

80495bf: 39 f5 cmp ebp,esi

80495c1: 0f 46 f5 cmovbe esi,ebp

80495c4: 89 df mov edi,ebx

80495c6: 03 7c 24 20 add edi,DWORD PTR [esp+0x20]

80495ca: 83 ec 04 sub esp,0x4

80495cd: 56 push esi

80495ce: 52 push edx

80495cf: 57 push edi

80495d0: e8 74 f8 ff ff call 8048e49 <memcpy>

80495d5: c6 04 37 00 mov BYTE PTR [edi+esi\*1],0x0

80495d9: 83 c4 10 add esp,0x10

80495dc: 8d 44 1d 00 lea eax,[ebp+ebx\*1+0x0]

80495e0: 83 c4 0c add esp,0xc

80495e3: 5b pop ebx

80495e4: 5e pop esi

80495e5: 5f pop edi

80495e6: 5d pop ebp

80495e7: c3 ret

080495e8 <udiv64>:

80495e8: 55 push ebp

80495e9: 57 push edi

80495ea: 56 push esi

80495eb: 53 push ebx

80495ec: 83 ec 1c sub esp,0x1c

80495ef: 89 04 24 mov DWORD PTR [esp],eax

80495f2: 89 54 24 04 mov DWORD PTR [esp+0x4],edx

80495f6: 8b 74 24 30 mov esi,DWORD PTR [esp+0x30]

80495fa: 8b 7c 24 34 mov edi,DWORD PTR [esp+0x34]

80495fe: 85 ff test edi,edi

8049600: 75 43 jne 8049645 <udiv64+0x5d>

8049602: 8b 44 24 04 mov eax,DWORD PTR [esp+0x4]

8049606: ba 00 00 00 00 mov edx,0x0

804960b: f7 f6 div esi

804960d: 89 c7 mov edi,eax

804960f: 89 d0 mov eax,edx

8049611: 89 c2 mov edx,eax

8049613: b8 00 00 00 00 mov eax,0x0

8049618: 8b 0c 24 mov ecx,DWORD PTR [esp]

804961b: bb 00 00 00 00 mov ebx,0x0

8049620: 01 c8 add eax,ecx

8049622: 11 da adc edx,ebx

8049624: f7 f6 div esi

8049626: 89 f9 mov ecx,edi

8049628: 89 cf mov edi,ecx

804962a: be 00 00 00 00 mov esi,0x0

804962f: ba 00 00 00 00 mov edx,0x0

8049634: 01 c6 add esi,eax

8049636: 11 d7 adc edi,edx

8049638: 89 74 24 08 mov DWORD PTR [esp+0x8],esi

804963c: 89 7c 24 0c mov DWORD PTR [esp+0xc],edi

8049640: e9 05 01 00 00 jmp 804974a <udiv64+0x162>

8049645: 89 fa mov edx,edi

8049647: 8b 0c 24 mov ecx,DWORD PTR [esp]

804964a: 8b 5c 24 04 mov ebx,DWORD PTR [esp+0x4]

804964e: 39 df cmp edi,ebx

8049650: 0f 87 e4 00 00 00 ja 804973a <udiv64+0x152>

8049656: 72 08 jb 8049660 <udiv64+0x78>

8049658: 39 ce cmp esi,ecx

804965a: 0f 87 da 00 00 00 ja 804973a <udiv64+0x152>

8049660: 89 d0 mov eax,edx

8049662: bd 00 00 00 00 mov ebp,0x0

8049667: 81 fa ff ff 00 00 cmp edx,0xffff

804966d: 77 08 ja 8049677 <udiv64+0x8f>

804966f: c1 e0 10 shl eax,0x10

8049672: bd 10 00 00 00 mov ebp,0x10

8049677: 3d ff ff ff 00 cmp eax,0xffffff

804967c: 77 06 ja 8049684 <udiv64+0x9c>

804967e: 83 c5 08 add ebp,0x8

8049681: c1 e0 08 shl eax,0x8

8049684: 3d ff ff ff 0f cmp eax,0xfffffff

8049689: 77 06 ja 8049691 <udiv64+0xa9>

804968b: 83 c5 04 add ebp,0x4

804968e: c1 e0 04 shl eax,0x4

8049691: 3d ff ff ff 3f cmp eax,0x3fffffff

8049696: 77 06 ja 804969e <udiv64+0xb6>

8049698: 83 c5 02 add ebp,0x2

804969b: c1 e0 02 shl eax,0x2

804969e: 3d 00 00 00 80 cmp eax,0x80000000

80496a3: 83 d5 00 adc ebp,0x0

80496a6: 8b 04 24 mov eax,DWORD PTR [esp]

80496a9: 8b 54 24 04 mov edx,DWORD PTR [esp+0x4]

80496ad: 0f ac d0 01 shrd eax,edx,0x1

80496b1: d1 ea shr edx,1

80496b3: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

80496b7: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

80496bb: 89 f0 mov eax,esi

80496bd: 89 fa mov edx,edi

80496bf: 89 e9 mov ecx,ebp

80496c1: 0f a5 f2 shld edx,esi,cl

80496c4: d3 e0 shl eax,cl

80496c6: f6 c1 20 test cl,0x20

80496c9: 74 02 je 80496cd <udiv64+0xe5>

80496cb: 89 c2 mov edx,eax

80496cd: 89 d3 mov ebx,edx

80496cf: 8b 54 24 0c mov edx,DWORD PTR [esp+0xc]

80496d3: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

80496d7: f7 f3 div ebx

80496d9: b9 1f 00 00 00 mov ecx,0x1f

80496de: 29 e9 sub ecx,ebp

80496e0: d3 e8 shr eax,cl

80496e2: 89 c2 mov edx,eax

80496e4: b9 00 00 00 00 mov ecx,0x0

80496e9: 89 44 24 10 mov DWORD PTR [esp+0x10],eax

80496ed: 89 4c 24 14 mov DWORD PTR [esp+0x14],ecx

80496f1: 83 c2 ff add edx,0xffffffff

80496f4: 83 d1 ff adc ecx,0xffffffff

80496f7: 89 cb mov ebx,ecx

80496f9: 89 54 24 08 mov DWORD PTR [esp+0x8],edx

80496fd: 89 5c 24 0c mov DWORD PTR [esp+0xc],ebx

8049701: 89 fd mov ebp,edi

8049703: 0f af ea imul ebp,edx

8049706: 89 d8 mov eax,ebx

8049708: 0f af c6 imul eax,esi

804970b: 01 c5 add ebp,eax

804970d: 89 f0 mov eax,esi

804970f: f7 e2 mul edx

8049711: 01 ea add edx,ebp

8049713: 8b 0c 24 mov ecx,DWORD PTR [esp]

8049716: 8b 5c 24 04 mov ebx,DWORD PTR [esp+0x4]

804971a: 29 c1 sub ecx,eax

804971c: 19 d3 sbb ebx,edx

804971e: 39 df cmp edi,ebx

8049720: 77 28 ja 804974a <udiv64+0x162>

8049722: 72 04 jb 8049728 <udiv64+0x140>

8049724: 39 ce cmp esi,ecx

8049726: 77 22 ja 804974a <udiv64+0x162>

8049728: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

804972c: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

8049730: 89 44 24 08 mov DWORD PTR [esp+0x8],eax

8049734: 89 54 24 0c mov DWORD PTR [esp+0xc],edx

8049738: eb 10 jmp 804974a <udiv64+0x162>

804973a: c7 44 24 08 00 00 00 mov DWORD PTR [esp+0x8],0x0

8049741: 00

8049742: c7 44 24 0c 00 00 00 mov DWORD PTR [esp+0xc],0x0

8049749: 00

804974a: 8b 44 24 08 mov eax,DWORD PTR [esp+0x8]

804974e: 8b 54 24 0c mov edx,DWORD PTR [esp+0xc]

8049752: 83 c4 1c add esp,0x1c

8049755: 5b pop ebx

8049756: 5e pop esi

8049757: 5f pop edi

8049758: 5d pop ebp

8049759: c3 ret

0804975a <sdiv64>:

804975a: 57 push edi

804975b: 56 push esi

804975c: 53 push ebx

804975d: 83 ec 08 sub esp,0x8

8049760: 89 04 24 mov DWORD PTR [esp],eax

8049763: 89 54 24 04 mov DWORD PTR [esp+0x4],edx

8049767: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

804976b: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

804976f: 85 d2 test edx,edx

8049771: 79 07 jns 804977a <sdiv64+0x20>

8049773: f7 d8 neg eax

8049775: 83 d2 00 adc edx,0x0

8049778: f7 da neg edx

804977a: 89 f1 mov ecx,esi

804977c: 89 fb mov ebx,edi

804977e: 85 ff test edi,edi

8049780: 79 07 jns 8049789 <sdiv64+0x2f>

8049782: f7 d9 neg ecx

8049784: 83 d3 00 adc ebx,0x0

8049787: f7 db neg ebx

8049789: 53 push ebx

804978a: 51 push ecx

804978b: e8 58 fe ff ff call 80495e8 <udiv64>

8049790: 83 c4 08 add esp,0x8

8049793: 8b 4c 24 04 mov ecx,DWORD PTR [esp+0x4]

8049797: f7 d1 not ecx

8049799: c1 e9 1f shr ecx,0x1f

804979c: 89 fb mov ebx,edi

804979e: c1 eb 1f shr ebx,0x1f

80497a1: 38 d9 cmp cl,bl

80497a3: 75 07 jne 80497ac <sdiv64+0x52>

80497a5: f7 d8 neg eax

80497a7: 83 d2 00 adc edx,0x0

80497aa: f7 da neg edx

80497ac: 83 c4 08 add esp,0x8

80497af: 5b pop ebx

80497b0: 5e pop esi

80497b1: 5f pop edi

80497b2: c3 ret

080497b3 <\_\_divdi3>:

80497b3: 83 ec 04 sub esp,0x4

80497b6: ff 74 24 14 push DWORD PTR [esp+0x14]

80497ba: ff 74 24 14 push DWORD PTR [esp+0x14]

80497be: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

80497c2: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

80497c6: e8 8f ff ff ff call 804975a <sdiv64>

80497cb: 83 c4 0c add esp,0xc

80497ce: c3 ret

080497cf <\_\_moddi3>:

80497cf: 57 push edi

80497d0: 56 push esi

80497d1: 53 push ebx

80497d2: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

80497d6: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

80497da: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

80497de: 57 push edi

80497df: 56 push esi

80497e0: 89 d8 mov eax,ebx

80497e2: 8b 54 24 1c mov edx,DWORD PTR [esp+0x1c]

80497e6: e8 6f ff ff ff call 804975a <sdiv64>

80497eb: 83 c4 08 add esp,0x8

80497ee: 0f af f0 imul esi,eax

80497f1: 89 d8 mov eax,ebx

80497f3: 29 f0 sub eax,esi

80497f5: 99 cdq

80497f6: 5b pop ebx

80497f7: 5e pop esi

80497f8: 5f pop edi

80497f9: c3 ret

080497fa <\_\_udivdi3>:

80497fa: 83 ec 04 sub esp,0x4

80497fd: ff 74 24 14 push DWORD PTR [esp+0x14]

8049801: ff 74 24 14 push DWORD PTR [esp+0x14]

8049805: 8b 44 24 10 mov eax,DWORD PTR [esp+0x10]

8049809: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

804980d: e8 d6 fd ff ff call 80495e8 <udiv64>

8049812: 83 c4 0c add esp,0xc

8049815: c3 ret

08049816 <\_\_umoddi3>:

8049816: 57 push edi

8049817: 56 push esi

8049818: 53 push ebx

8049819: 8b 5c 24 10 mov ebx,DWORD PTR [esp+0x10]

804981d: 8b 74 24 18 mov esi,DWORD PTR [esp+0x18]

8049821: 8b 7c 24 1c mov edi,DWORD PTR [esp+0x1c]

8049825: 57 push edi

8049826: 56 push esi

8049827: 89 d8 mov eax,ebx

8049829: 8b 54 24 1c mov edx,DWORD PTR [esp+0x1c]

804982d: e8 b6 fd ff ff call 80495e8 <udiv64>

8049832: 83 c4 08 add esp,0x8

8049835: 0f af f0 imul esi,eax

8049838: 89 d8 mov eax,ebx

804983a: 29 f0 sub eax,esi

804983c: ba 00 00 00 00 mov edx,0x0

8049841: 5b pop ebx

8049842: 5e pop esi

8049843: 5f pop edi

8049844: c3 ret

08049845 <debug\_panic>:

8049845: 83 ec 0c sub esp,0xc

8049848: ff 74 24 18 push DWORD PTR [esp+0x18]

804984c: ff 74 24 18 push DWORD PTR [esp+0x18]

8049850: ff 74 24 18 push DWORD PTR [esp+0x18]

8049854: 68 74 a5 04 08 push 0x804a574

8049859: e8 4e ec ff ff call 80484ac <printf>

804985e: 8d 44 24 30 lea eax,[esp+0x30]

8049862: 83 c4 08 add esp,0x8

8049865: 50 push eax

8049866: ff 74 24 28 push DWORD PTR [esp+0x28]

804986a: e8 65 02 00 00 call 8049ad4 <vprintf>

804986f: c7 04 24 0a 00 00 00 mov DWORD PTR [esp],0xa

8049876: e8 bf 01 00 00 call 8049a3a <putchar>

804987b: e8 86 02 00 00 call 8049b06 <debug\_backtrace>

8049880: c7 04 24 01 00 00 00 mov DWORD PTR [esp],0x1

8049887: e8 20 00 00 00 call 80498ac <exit>

0804988c <halt>:

804988c: 83 ec 0c sub esp,0xc

804988f: 6a 00 push 0x0

8049891: cd 30 int 0x30

8049893: 83 c4 04 add esp,0x4

8049896: 68 50 a5 04 08 push 0x804a550

804989b: 68 68 a3 04 08 push 0x804a368

80498a0: 6a 56 push 0x56

80498a2: 68 2a a5 04 08 push 0x804a52a

80498a7: e8 99 ff ff ff call 8049845 <debug\_panic>

080498ac <exit>:

80498ac: 83 ec 0c sub esp,0xc

80498af: ff 74 24 10 push DWORD PTR [esp+0x10]

80498b3: 6a 01 push 0x1

80498b5: cd 30 int 0x30

80498b7: 83 c4 08 add esp,0x8

80498ba: 68 50 a5 04 08 push 0x804a550

80498bf: 68 60 a3 04 08 push 0x804a360

80498c4: 6a 5e push 0x5e

80498c6: 68 2a a5 04 08 push 0x804a52a

80498cb: e8 75 ff ff ff call 8049845 <debug\_panic>

080498d0 <exec>:

80498d0: ff 74 24 04 push DWORD PTR [esp+0x4]

80498d4: 6a 02 push 0x2

80498d6: cd 30 int 0x30

80498d8: 83 c4 08 add esp,0x8

80498db: c3 ret

080498dc <wait>:

80498dc: ff 74 24 04 push DWORD PTR [esp+0x4]

80498e0: 6a 03 push 0x3

80498e2: cd 30 int 0x30

80498e4: 83 c4 08 add esp,0x8

80498e7: c3 ret

080498e8 <create>:

80498e8: ff 74 24 08 push DWORD PTR [esp+0x8]

80498ec: ff 74 24 04 push DWORD PTR [esp+0x4]

80498f0: 6a 04 push 0x4

80498f2: cd 30 int 0x30

80498f4: 83 c4 0c add esp,0xc

80498f7: 85 c0 test eax,eax

80498f9: 0f 95 c0 setne al

80498fc: c3 ret

080498fd <remove>:

80498fd: ff 74 24 04 push DWORD PTR [esp+0x4]

8049901: 6a 05 push 0x5

8049903: cd 30 int 0x30

8049905: 83 c4 08 add esp,0x8

8049908: 85 c0 test eax,eax

804990a: 0f 95 c0 setne al

804990d: c3 ret

0804990e <open>:

804990e: ff 74 24 04 push DWORD PTR [esp+0x4]

8049912: 6a 06 push 0x6

8049914: cd 30 int 0x30

8049916: 83 c4 08 add esp,0x8

8049919: c3 ret

0804991a <filesize>:

804991a: ff 74 24 04 push DWORD PTR [esp+0x4]

804991e: 6a 07 push 0x7

8049920: cd 30 int 0x30

8049922: 83 c4 08 add esp,0x8

8049925: c3 ret

08049926 <read>:

8049926: ff 74 24 0c push DWORD PTR [esp+0xc]

804992a: ff 74 24 0c push DWORD PTR [esp+0xc]

804992e: ff 74 24 04 push DWORD PTR [esp+0x4]

8049932: 6a 08 push 0x8

8049934: cd 30 int 0x30

8049936: 83 c4 10 add esp,0x10

8049939: c3 ret

0804993a <write>:

804993a: ff 74 24 0c push DWORD PTR [esp+0xc]

804993e: ff 74 24 0c push DWORD PTR [esp+0xc]

8049942: 6a 01 push 0x1

8049944: 6a 09 push 0x9

8049946: cd 30 int 0x30

8049948: 83 c4 10 add esp,0x10

804994b: c3 ret

0804994c <seek>:

804994c: ff 74 24 08 push DWORD PTR [esp+0x8]

8049950: ff 74 24 04 push DWORD PTR [esp+0x4]

8049954: 6a 0a push 0xa

8049956: cd 30 int 0x30

8049958: 83 c4 0c add esp,0xc

804995b: c3 ret

0804995c <tell>:

804995c: ff 74 24 04 push DWORD PTR [esp+0x4]

8049960: 6a 0b push 0xb

8049962: cd 30 int 0x30

8049964: 83 c4 08 add esp,0x8

8049967: c3 ret

08049968 <close>:

8049968: ff 74 24 04 push DWORD PTR [esp+0x4]

804996c: 6a 0c push 0xc

804996e: cd 30 int 0x30

8049970: 83 c4 08 add esp,0x8

8049973: c3 ret

08049974 <mmap>:

8049974: ff 74 24 08 push DWORD PTR [esp+0x8]

8049978: ff 74 24 04 push DWORD PTR [esp+0x4]

804997c: 6a 0d push 0xd

804997e: cd 30 int 0x30

8049980: 83 c4 0c add esp,0xc

8049983: c3 ret

08049984 <munmap>:

8049984: ff 74 24 04 push DWORD PTR [esp+0x4]

8049988: 6a 0e push 0xe

804998a: cd 30 int 0x30

804998c: 83 c4 08 add esp,0x8

804998f: c3 ret

08049990 <chdir>:

8049990: ff 74 24 04 push DWORD PTR [esp+0x4]

8049994: 6a 0f push 0xf

8049996: cd 30 int 0x30

8049998: 83 c4 08 add esp,0x8

804999b: 85 c0 test eax,eax

804999d: 0f 95 c0 setne al

80499a0: c3 ret

080499a1 <mkdir>:

80499a1: ff 74 24 04 push DWORD PTR [esp+0x4]

80499a5: 6a 10 push 0x10

80499a7: cd 30 int 0x30

80499a9: 83 c4 08 add esp,0x8

80499ac: 85 c0 test eax,eax

80499ae: 0f 95 c0 setne al

80499b1: c3 ret

080499b2 <readdir>:

80499b2: ff 74 24 08 push DWORD PTR [esp+0x8]

80499b6: ff 74 24 04 push DWORD PTR [esp+0x4]

80499ba: 6a 11 push 0x11

80499bc: cd 30 int 0x30

80499be: 83 c4 0c add esp,0xc

80499c1: 85 c0 test eax,eax

80499c3: 0f 95 c0 setne al

80499c6: c3 ret

080499c7 <isdir>:

80499c7: ff 74 24 04 push DWORD PTR [esp+0x4]

80499cb: 6a 12 push 0x12

80499cd: cd 30 int 0x30

80499cf: 83 c4 08 add esp,0x8

80499d2: 85 c0 test eax,eax

80499d4: 0f 95 c0 setne al

80499d7: c3 ret

080499d8 <inumber>:

80499d8: ff 74 24 04 push DWORD PTR [esp+0x4]

80499dc: 6a 13 push 0x13

80499de: cd 30 int 0x30

80499e0: 83 c4 08 add esp,0x8

80499e3: c3 ret

080499e4 <flush>:

80499e4: 53 push ebx

80499e5: 83 ec 08 sub esp,0x8

80499e8: 89 c3 mov ebx,eax

80499ea: 8b 40 40 mov eax,DWORD PTR [eax+0x40]

80499ed: 39 d8 cmp eax,ebx

80499ef: 76 12 jbe 8049a03 <flush+0x1f>

80499f1: 83 ec 04 sub esp,0x4

80499f4: 29 d8 sub eax,ebx

80499f6: 50 push eax

80499f7: 53 push ebx

80499f8: ff 73 48 push DWORD PTR [ebx+0x48]

80499fb: e8 3a ff ff ff call 804993a <write>

8049a00: 83 c4 10 add esp,0x10

8049a03: 89 5b 40 mov DWORD PTR [ebx+0x40],ebx

8049a06: 83 c4 08 add esp,0x8

8049a09: 5b pop ebx

8049a0a: c3 ret

08049a0b <add\_char>:

8049a0b: 53 push ebx

8049a0c: 83 ec 08 sub esp,0x8

8049a0f: 8b 5c 24 14 mov ebx,DWORD PTR [esp+0x14]

8049a13: 8b 43 40 mov eax,DWORD PTR [ebx+0x40]

8049a16: 8d 50 01 lea edx,[eax+0x1]

8049a19: 89 53 40 mov DWORD PTR [ebx+0x40],edx

8049a1c: 8b 54 24 10 mov edx,DWORD PTR [esp+0x10]

8049a20: 88 10 mov BYTE PTR [eax],dl

8049a22: 8d 43 40 lea eax,[ebx+0x40]

8049a25: 39 43 40 cmp DWORD PTR [ebx+0x40],eax

8049a28: 72 07 jb 8049a31 <add\_char+0x26>

8049a2a: 89 d8 mov eax,ebx

8049a2c: e8 b3 ff ff ff call 80499e4 <flush>

8049a31: 83 43 44 01 add DWORD PTR [ebx+0x44],0x1

8049a35: 83 c4 08 add esp,0x8

8049a38: 5b pop ebx

8049a39: c3 ret

08049a3a <putchar>:

8049a3a: 53 push ebx

8049a3b: 83 ec 1c sub esp,0x1c

8049a3e: 8b 5c 24 24 mov ebx,DWORD PTR [esp+0x24]

8049a42: 88 5c 24 13 mov BYTE PTR [esp+0x13],bl

8049a46: 6a 01 push 0x1

8049a48: 8d 44 24 17 lea eax,[esp+0x17]

8049a4c: 50 push eax

8049a4d: 6a 01 push 0x1

8049a4f: e8 e6 fe ff ff call 804993a <write>

8049a54: 89 d8 mov eax,ebx

8049a56: 83 c4 28 add esp,0x28

8049a59: 5b pop ebx

8049a5a: c3 ret

08049a5b <puts>:

8049a5b: 57 push edi

8049a5c: 83 ec 0c sub esp,0xc

8049a5f: 8b 54 24 14 mov edx,DWORD PTR [esp+0x14]

8049a63: b8 00 00 00 00 mov eax,0x0

8049a68: b9 ff ff ff ff mov ecx,0xffffffff

8049a6d: 89 d7 mov edi,edx

8049a6f: f2 ae repnz scas al,BYTE PTR es:[edi]

8049a71: f7 d1 not ecx

8049a73: 83 e9 01 sub ecx,0x1

8049a76: 51 push ecx

8049a77: 52 push edx

8049a78: 6a 01 push 0x1

8049a7a: e8 bb fe ff ff call 804993a <write>

8049a7f: c7 04 24 0a 00 00 00 mov DWORD PTR [esp],0xa

8049a86: e8 af ff ff ff call 8049a3a <putchar>

8049a8b: b8 00 00 00 00 mov eax,0x0

8049a90: 83 c4 18 add esp,0x18

8049a93: 5f pop edi

8049a94: c3 ret

08049a95 <vhprintf>:

8049a95: 53 push ebx

8049a96: 83 ec 58 sub esp,0x58

8049a99: 8d 5c 24 04 lea ebx,[esp+0x4]

8049a9d: 89 5c 24 44 mov DWORD PTR [esp+0x44],ebx

8049aa1: c7 44 24 48 00 00 00 mov DWORD PTR [esp+0x48],0x0

8049aa8: 00

8049aa9: 8b 44 24 60 mov eax,DWORD PTR [esp+0x60]

8049aad: 89 44 24 4c mov DWORD PTR [esp+0x4c],eax

8049ab1: 53 push ebx

8049ab2: 68 0b 9a 04 08 push 0x8049a0b

8049ab7: ff 74 24 70 push DWORD PTR [esp+0x70]

8049abb: ff 74 24 70 push DWORD PTR [esp+0x70]

8049abf: e8 1d ea ff ff call 80484e1 <\_\_vprintf>

8049ac4: 89 d8 mov eax,ebx

8049ac6: e8 19 ff ff ff call 80499e4 <flush>

8049acb: 8b 44 24 58 mov eax,DWORD PTR [esp+0x58]

8049acf: 83 c4 68 add esp,0x68

8049ad2: 5b pop ebx

8049ad3: c3 ret

08049ad4 <vprintf>:

8049ad4: 83 ec 10 sub esp,0x10

8049ad7: ff 74 24 18 push DWORD PTR [esp+0x18]

8049adb: ff 74 24 18 push DWORD PTR [esp+0x18]

8049adf: 6a 01 push 0x1

8049ae1: e8 af ff ff ff call 8049a95 <vhprintf>

8049ae6: 83 c4 1c add esp,0x1c

8049ae9: c3 ret

08049aea <hprintf>:

8049aea: 83 ec 0c sub esp,0xc

8049aed: 8d 44 24 18 lea eax,[esp+0x18]

8049af1: 83 ec 04 sub esp,0x4

8049af4: 50 push eax

8049af5: ff 74 24 1c push DWORD PTR [esp+0x1c]

8049af9: ff 74 24 1c push DWORD PTR [esp+0x1c]

8049afd: e8 93 ff ff ff call 8049a95 <vhprintf>

8049b02: 83 c4 1c add esp,0x1c

8049b05: c3 ret

08049b06 <debug\_backtrace>:

8049b06: 55 push ebp

8049b07: 89 e5 mov ebp,esp

8049b09: 53 push ebx

8049b0a: 83 ec 0c sub esp,0xc

8049b0d: ff 75 04 push DWORD PTR [ebp+0x4]

8049b10: 68 40 a5 04 08 push 0x804a540

8049b15: e8 92 e9 ff ff call 80484ac <printf>

8049b1a: 8b 5d 00 mov ebx,DWORD PTR [ebp+0x0]

8049b1d: 83 c4 10 add esp,0x10

8049b20: 81 fb ff 0f 00 00 cmp ebx,0xfff

8049b26: 76 27 jbe 8049b4f <debug\_backtrace+0x49>

8049b28: 83 3b 00 cmp DWORD PTR [ebx],0x0

8049b2b: 74 22 je 8049b4f <debug\_backtrace+0x49>

8049b2d: 83 ec 08 sub esp,0x8

8049b30: ff 73 04 push DWORD PTR [ebx+0x4]

8049b33: 68 4b a5 04 08 push 0x804a54b

8049b38: e8 6f e9 ff ff call 80484ac <printf>

8049b3d: 8b 1b mov ebx,DWORD PTR [ebx]

8049b3f: 83 c4 10 add esp,0x10

8049b42: 81 fb ff 0f 00 00 cmp ebx,0xfff

8049b48: 76 05 jbe 8049b4f <debug\_backtrace+0x49>

8049b4a: 83 3b 00 cmp DWORD PTR [ebx],0x0

8049b4d: 75 de jne 8049b2d <debug\_backtrace+0x27>

8049b4f: 83 ec 0c sub esp,0xc

8049b52: 68 57 a4 04 08 push 0x804a457

8049b57: e8 ff fe ff ff call 8049a5b <puts>

8049b5c: 83 c4 10 add esp,0x10

8049b5f: 80 3d 50 b6 04 08 00 cmp BYTE PTR ds:0x804b650,0x0

8049b66: 75 17 jne 8049b7f <debug\_backtrace+0x79>

8049b68: c6 05 50 b6 04 08 01 mov BYTE PTR ds:0x804b650,0x1

8049b6f: 83 ec 0c sub esp,0xc

8049b72: 68 9c a5 04 08 push 0x804a59c

8049b77: e8 df fe ff ff call 8049a5b <puts>

8049b7c: 83 c4 10 add esp,0x10

8049b7f: 8b 5d fc mov ebx,DWORD PTR [ebp-0x4]

8049b82: c9 leave

8049b83: c3 ret

micro@micro-virtual-machine:~/pintos3/src/vm$