```
Using host libthread db library "/lib64/libthread db.so.1".
                0xfffffa7a28dc
x0
                                     281474884053212
x1
                0xfffffa7a28d8
                                     281474884053208
x2
                0xfffffa7a28d4
                                     281474884053204
                                     4196340
x3
                0x4007f4
x4
                0xffffa8bb4aa0
                                     281473512589984
x5
                0x4cd18e47aa65d63b
                                     5535361855467673147
х6
                0x0
                                     0
x7
                0xffffa8ae5000
                                     281473511739392
8x
                0xffffa8810ae0
                                     281473508772576
x9
                0x7f7f7f7f7f7f7f7f
                                     9187201950435737471
x10
                0xffffa8662fe8
                                     281473507012584
x11
                0x0
x12
                0xffffa8bc2360
                                     281473512645472
x13
                0x0
                                     0
x14
                0x2e
                                     46
x15
                0x3d8f538
                                     64550200
x16
                0xffffa880fd60
                                     281473508769120
x17
                0xffffa8b936a0
                                     281473512453792
x18
                0xffffa8ae60c0
                                     281473511743680
                0xfffffa7a2a58
x19
                                     281474884053592
x20
                0x1
                                     1
x21
                0x41fdc0
                                     4324800
x22
                0x4007f4
                                     4196340
x23
                0xfffffa7a2a68
                                     281474884053608
x24
                0xffffa8bc0b20
                                     281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                     281473512640512
x27
                0x41fdc0
                                     4324800
x28
                0x0
                                     0
x29
                0xfffffa7a28c0
                                     281474884053184
x30
                0x400914
                                     4196628
                0xfffffa7a28c0
                                     0xfffffa7a28c0
sp
                                     0x400998 <add values>
                0x400998
рс
                0x60000000
                                     [ EL=0 BTYPE=0 C Z ]
cpsr
                                     [ ]
fpsr
                0x0
fpcr
                                     [ Len=0 Stride=0 RMode=0 ]
                0x0
tpidr
                                     0xffffa8bb50a0
                0xffffa8bb50a0
tpidr2
                0x0
                                     0x0
pauth dmask
                                     35747322042253312
               0x7f0000000000000
pauth cmask
               0x7f0000000000000
                                     35747322042253312
Breakpoint 1, add_values () at add_values.s:5
5
            stp fp, lr, [sp, #-16]!
```

```
(gdb) si
                0xfffffa7a28dc
                                     281474884053212
x0
x1
                0xfffffa7a28d8
                                     281474884053208
x2
                0xfffffa7a28d4
                                     281474884053204
x3
                0x4007f4
                                     4196340
x4
                0xffffa8bb4aa0
                                     281473512589984
x5
                0x4cd18e47aa65d63b
                                     5535361855467673147
x6
                0x0
x7
                0xffffa8ae5000
                                     281473511739392
x8
                0xffffa8810ae0
                                     281473508772576
x9
                0x7f7f7f7f7f7f7f7f
                                     9187201950435737471
x10
                0xffffa8662fe8
                                     281473507012584
x11
                0x0
                                     0
x12
                0xffffa8bc2360
                                     281473512645472
x13
                0x0
                                     0
x14
                0x2e
                                     46
x15
                0x3d8f538
                                     64550200
x16
                0xffffa880fd60
                                     281473508769120
x17
                0xffffa8b936a0
                                     281473512453792
x18
                0xffffa8ae60c0
                                     281473511743680
x19
                0xfffffa7a2a58
                                     281474884053592
x20
                0x1
                                     1
x21
                0x41fdc0
                                     4324800
x22
                0x4007f4
                                     4196340
x23
                0xfffffa7a2a68
                                     281474884053608
x24
                0xffffa8bc0b20
                                     281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                     281473512640512
x27
                0x41fdc0
                                     4324800
x28
                0x0
x29
                0xfffffa7a28c0
                                     281474884053184
x30
                0x400914
                                     4196628
                0xfffffa7a28b0
                                     0xfffffa7a28b0
sp
                                     0x40099c <add_values+4>
рс
                0x40099c
                                     [ EL=0 BTYPE=0 SS C Z ]
                0x60200000
cpsr
                                     Γ
                                       1
fpsr
                0x0
fpcr
                0x0
                                     [ Len=0 Stride=0 RMode=0 ]
tpidr
                0xffffa8bb50a0
                                     0xffffa8bb50a0
tpidr2
                0x0
                                     0x0
pauth dmask
                0x7f0000000000000
                                     35747322042253312
pauth_cmask
                0x7f00000000000000
                                     35747322042253312
            mov fp, sp
6
```

```
(gdb) si
x0
                0xfffffa7a28dc
                                     281474884053212
                0xfffffa7a28d8
x1
                                     281474884053208
x2
                0xfffffa7a28d4
                                     281474884053204
x3
                0x4007f4
                                     4196340
x4
                0xffffa8bb4aa0
                                     281473512589984
x5
                0x4cd18e47aa65d63b
                                     5535361855467673147
x6
                0x0
                                     0
x7
                0xffffa8ae5000
                                     281473511739392
8x
                0xffffa8810ae0
                                     281473508772576
x9
                0x7f7f7f7f7f7f7f7f
                                     9187201950435737471
x10
                0xffffa8662fe8
                                     281473507012584
x11
                0x0
                                     0
x12
                0xffffa8bc2360
                                     281473512645472
x13
                0x0
                                     0
x14
                0x2e
                                     46
x15
                0x3d8f538
                                     64550200
x16
                0xffffa880fd60
                                     281473508769120
x17
                0xffffa8b936a0
                                     281473512453792
x18
                0xffffa8ae60c0
                                     281473511743680
x19
                0xfffffa7a2a58
                                     281474884053592
x20
                0x1
                                     1
x21
                0x41fdc0
                                     4324800
x22
                0x4007f4
                                     4196340
x23
                0xfffffa7a2a68
                                     281474884053608
x24
                0xffffa8bc0b20
                                     281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                     281473512640512
x27
                0x41fdc0
                                     4324800
x28
                0x0
                                     0
x29
                0xfffffa7a28b0
                                     281474884053168
x30
                0x400914
                                     4196628
                0xfffffa7a28b0
                                     0xfffffa7a28b0
sp
                                     0x4009a0 <add values+8>
рс
                0x4009a0
                0x60200000
                                     [ EL=0 BTYPE=0 SS C Z ]
cpsr
                                     Γ 1
fpsr
                0x0
fpcr
                0x0
                                     [ Len=0 Stride=0 RMode=0 ]
tpidr
                0xffffa8bb50a0
                                     0xffffa8bb50a0
tpidr2
                0x0
                                     0x0
pauth dmask
               0x7f0000000000000
                                     35747322042253312
pauth cmask
               0x7f00000000000000
                                     35747322042253312
8
            ldr w3, [x0]
```

```
(gdb) si
x0
                0xfffffa7a28dc
                                      281474884053212
x1
                0xfffffa7a28d8
                                      281474884053208
x2
                0xfffffa7a28d4
                                      281474884053204
x3
                0x20
                                      32
x4
                0xffffa8hb4aa0
                                      281473512589984
x5
                0x4cd18e47aa65d63b
                                      5535361855467673147
x6
                0x0
                                      9
                0xffffa8ae5000
x7
                                      281473511739392
8x
                0xffffa8810ae0
                                      281473508772576
x9
                0x7f7f7f7f7f7f7f7f
                                     9187201950435737471
x10
                0xffffa8662fe8
                                      281473507012584
x11
                0x0
                                      0
x12
                0xffffa8bc2360
                                      281473512645472
x13
                                      0
                0x0
                0x2e
x14
                                      46
x15
                0x3d8f538
                                     64550200
x16
                0xffffa880fd60
                                      281473508769120
x17
                0xffffa8b936a0
                                      281473512453792
x18
                0xffffa8ae60c0
                                      281473511743680
x19
                0xfffffa7a2a58
                                      281474884053592
x20
                0x1
                                      1
x21
                0x41fdc0
                                     4324800
x22
                0x4007f4
                                     4196340
                0xfffffa7a2a68
x23
                                      281474884053608
x24
                0xffffa8bc0b20
                                      281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                      281473512640512
x27
                0x41fdc0
                                     4324800
x28
                0x0
                                      0
x29
                0xfffffa7a28b0
                                      281474884053168
x30
                0x400914
                                     4196628
                0xfffffa7a28b0
                                      0xfffffa7a28b0
sp
                                     0x4009a4 <add_values+12>
рс
                0x4009a4
                                      [ EL=0 BTYPE=0 SS C Z ]
                0x60200000
cpsr
fpsr
                                      [ ]
                0x0
fpcr
                0x0
                                      [ Len=0 Stride=0 RMode=0 ]
tpidr
                0xffffa8bb50a0
                                      0xffffa8bb50a0
tpidr2
                0x0
                                      0x0
pauth_dmask
                0x7f0000000000000
                                      35747322042253312
pauth cmask
                0x7f00000000000000
                                      35747322042253312
             ldr w4, [x1]
9
```

```
(gdb) si
x0
                0xfffffa7a28dc
                                      281474884053212
x1
                0xfffffa7a28d8
                                      281474884053208
x2
                0xfffffa7a28d4
                                      281474884053204
x3
                0x20
                                      32
x4
                0xa
                                      10
x5
                0x4cd18e47aa65d63b
                                      5535361855467673147
x6
                axa
x7
                0xffffa8ae5000
                                      281473511739392
8x
                0xffffa8810ae0
                                      281473508772576
x9
                0x7f7f7f7f7f7f7f7f
                                      9187201950435737471
x10
                0xffffa8662fe8
                                      281473507012584
x11
                0x0
                                      0
x12
                0xffffa8hc2360
                                      281473512645472
x13
                                      0
                0x0
x14
                0x2e
                                      46
x15
                0x3d8f538
                                      64550200
x16
                0xffffa880fd60
                                      281473508769120
x17
                0xffffa8b936a0
                                      281473512453792
x18
                0xffffa8ae60c0
                                      281473511743680
x19
                0xfffffa7a2a58
                                      281474884053592
x20
                0x1
                                      1
x21
                0x41fdc0
                                      4324800
x22
                0x4007f4
                                      4196340
x23
                0xfffffa7a2a68
                                      281474884053608
x24
                0xffffa8bc0b20
                                      281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                      281473512640512
x27
                0x41fdc0
                                      4324800
x28
                0x0
                                      0
                0xfffffa7a28b0
x29
                                      281474884053168
x30
                0x400914
                                      4196628
                0xfffffa7a28b0
                                      0xfffffa7a28b0
sp
                                      0x4009a8 <add values+16>
рс
                0x4009a8
                0x60200000
                                      [ EL=0 BTYPE=0 SS C Z ]
cpsr
fpsr
                                      0x0
                                        1
fpcr
                0x0
                                      [ Len=0 Stride=0 RMode=0 ]
tpidr
                0xffffa8bb50a0
                                      0xffffa8bb50a0
tpidr2
                0x0
                                      0x0
pauth dmask
                0x7f0000000000000
                                      35747322042253312
pauth cmask
                0x7f0000000000000
                                      35747322042253312
10
             add w5, w3, w4
```

```
(gdb) si
                0xfffffa7a28dc
x0
                                      281474884053212
                0xfffffa7a28d8
                                      281474884053208
x1
x2
                0xfffffa7a28d4
                                      281474884053204
x3
                0x20
                                      32
x4
                0xa
                                      10
x5
                0x2a
                                      42
                0x0
                                      0
x6
                0xffffa8ae5000
x7
                                      281473511739392
x8
                0xffffa8810ae0
                                      281473508772576
x9
                0x7f7f7f7f7f7f7f7f
                                      9187201950435737471
x10
                0xffffa8662fe8
                                      281473507012584
x11
                0x0
                                      0
x12
                0xffffa8bc2360
                                      281473512645472
x13
                0x0
                                      0
                0x2e
                                      46
x14
x15
                0x3d8f538
                                      64550200
                0xffffa880fd60
x16
                                      281473508769120
x17
                0xffffa8b936a0
                                      281473512453792
                0xffffa8ae60c0
x18
                                      281473511743680
x19
                0xfffffa7a2a58
                                      281474884053592
x20
                0x1
                                      1
x21
                0x41fdc0
                                      4324800
x22
                0x4007f4
                                      4196340
                0xfffffa7a2a68
x23
                                      281474884053608
                0xffffa8bc0b20
                                      281473512639264
x24
x25
                0x0
x26
                0xffffa8bc1000
                                      281473512640512
                0x41fdc0
x27
                                      4324800
x28
                                      0
                0x0
                0xfffffa7a28b0
x29
                                      281474884053168
x30
                0x400914
                                      4196628
                                      0xfffffa7a28b0
                0xfffffa7a28b0
sp
                                      0x4009ac <add values+20>
рс
                0x4009ac
                0x60200000
                                      [ EL=0 BTYPE=0 SS C Z ]
cpsr
                                      ]
fpsr
                0x0
fpcr
                0x0
                                      [ Len=0 Stride=0 RMode=0 ]
tpidr
                0xffffa8bb50a0
                                      0xffffa8bb50a0
tpidr2
                0x0
                                      0x0
pauth dmask
                0x7f0000000000000
                                      35747322042253312
pauth cmask
                0x7f0000000000000
                                      35747322042253312
             str w5, [x2]
```

```
(gdb) si
x0
                0xfffffa7a28dc
                                      281474884053212
                0xfffffa7a28d8
x1
                                      281474884053208
x2
                0xfffffa7a28d4
                                      281474884053204
x3
                0x20
                                      32
x4
                0xa
                                      10
x5
                0x2a
                                      42
x6
                9x9
                                      0
                0xffffa8ae5000
x7
                                      281473511739392
x8
                0xffffa8810ae0
                                      281473508772576
                0x7f7f7f7f7f7f7f7f
x9
                                      9187201950435737471
x10
                0xffffa8662fe8
                                      281473507012584
x11
                0x0
                                      0
x12
                0xffffa8bc2360
                                      281473512645472
x13
                0x0
                                      0
                                      46
x14
                0x2e
x15
                0x3d8f538
                                      64550200
x16
                0xffffa880fd60
                                      281473508769120
x17
                0xffffa8b936a0
                                      281473512453792
x18
                0xffffa8ae60c0
                                      281473511743680
x19
                0xfffffa7a2a58
                                      281474884053592
x20
                0x1
                                      1
x21
                0x41fdc0
                                      4324800
x22
                0x4007f4
                                      4196340
x23
                0xfffffa7a2a68
                                      281474884053608
                0xffffa8bc0b20
x24
                                      281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                      281473512640512
x27
                0x41fdc0
                                      4324800
x28
                0x0
                                      0
x29
                0xfffffa7a28b0
                                      281474884053168
x30
                0x400914
                                      4196628
                0xfffffa7a28b0
                                      0xfffffa7a28b0
sp
                0x4009b0
                                      0x4009b0 <add values+24>
рс
                0x60200000
                                      [ EL=0 BTYPE=0 SS C Z ]
cpsr
                                      Γ
fpsr
                0x0
                                        1
                                      [ Len=0 Stride=0 RMode=0 ]
fpcr
                0x0
tpidr
                0xffffa8bb50a0
                                      0xffffa8bb50a0
tpidr2
                0x0
                                      0x0
pauth dmask
                0x7f0000000000000
                                      35747322042253312
pauth cmask
                0x7f00000000000000
                                      35747322042253312
             ldp fp, lr, [sp], #16
13
```

```
(gdb) si
                0xfffffa7a28dc
x0
                                      281474884053212
x1
                0xfffffa7a28d8
                                      281474884053208
x2
                0xfffffa7a28d4
                                      281474884053204
x3
                0x20
                                      32
                                      10
x4
                0xa
                                      42
x5
                0x2a
x6
                9x9
                                      0
x7
                0xffffa8ae5000
                                      281473511739392
                0xffffa8810ae0
x8
                                      281473508772576
                0x7f7f7f7f7f7f7f7f
x9
                                      9187201950435737471
                0xffffa8662fe8
                                      281473507012584
x10
x11
                9×9
                                      0
x12
                0xffffa8bc2360
                                      281473512645472
x13
                                      0
                9×9
                                      46
x14
                0x2e
x15
                0x3d8f538
                                      64550200
                0xffffa880fd60
x16
                                      281473508769120
x17
                0xffffa8b936a0
                                      281473512453792
                0xffffa8ae60c0
x18
                                      281473511743680
x19
                0xfffffa7a2a58
                                      281474884053592
x20
                0x1
                                      1
                0x41fdc0
x21
                                      4324800
x22
                0x4007f4
                                      4196340
                0xfffffa7a2a68
x23
                                      281474884053608
                0xffffa8bc0b20
x24
                                      281473512639264
x25
                0x0
x26
                0xffffa8bc1000
                                      281473512640512
x27
                0x41fdc0
                                      4324800
x28
                0x0
                                      0
x29
                0xfffffa7a28c0
                                      281474884053184
x30
                0x400914
                                      4196628
                0xfffffa7a28c0
                                      0xfffffa7a28c0
sp
                0x4009b4
                                      0x4009b4 <add values+28>
pc
                                      [ EL=0 BTYPE=0 SS C Z ]
                0x60200000
cpsr
fpsr
                0x0
                                      Γ
                                        1
fpcr
                0x0
                                      [ Len=0 Stride=0 RMode=0 ]
tpidr
                0xffffa8bb50a0
                                      0xffffa8bb50a0
tpidr2
                0x0
                                      0x0
pauth dmask
                0x7f0000000000000
                                      35747322042253312
pauth cmask
                0x7f0000000000000
                                      35747322042253312
15
             ret
```