```
Using host libthread_db library "/lib64/libthread_db.so.1".
x0              0xffffffa7a28dc      281474884053212
x1              0xffffffa7a28d8      281474884053208
x2              0xffffffa7a28d4      281474884053204
x3              0x4007f4             4196340
x4              0xffffa8bb4aa0       281473512589984
x5              0x4cd18e47aa65d63b   5535361855467673147
x6              0x0                  0
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             0xffffffa7a2a58      281474884053592
x20             0x1                  1
x21             0x41fdc0             4324800
x22             0x4007f4             4196340
x23             0xffffffa7a2a68      281474884053608
x24             0xffffa8bc0b20       281473512639264
x25             0x0                  0
x26             0xffffa8bc1000       281473512640512
x27             0x41fdc0             4324800
x28             0x0                  0
x29             0xffffffa7a28c0      281474884053184
x30             0x400914             4196628
sp              0xffffffa7a28c0      0xffffffa7a28c0
pc              0x400998             0x400998 <add_values>
cpsr            0x60000000           [ EL=0 BTYPE=0 C Z ]
fpsr            0x0                  [ ]
fpcr            0x0                  [ Len=0 Stride=0 RMode=0 ]
tpidr           0xffffa8bb50a0       0xffffa8bb50a0
tpidr2          0x0                  0x0
pauth_dmask     0x7f000000000000     35747322042253312
pauth_cmask     0x7f000000000000     35747322042253312

Breakpoint 1, add_values () at add_values.s:5
5               stp fp, lr, [sp, #-16]!
```

```
(gdb) si
x0             0xfffffa7a28dc        281474884053212
x1             0xfffffa7a28d8        281474884053208
x2             0xfffffa7a28d4        281474884053204
x3             0x4007f4              4196340
x4             0xffffa8bb4aa0        281473512589984
x5             0x4cd18e47aa65d63b    5535361855467673147
x6             0x0                   0
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                   0
x26            0xffffa8bc1000        281473512640512
x27            0x41fdc0              4324800
x28            0x0                   0
x29            0xfffffa7a28c0        281474884053184
x30            0x400914              4196628
sp             0xfffffa7a28b0        0xfffffa7a28b0
pc             0x40099c              0x40099c <add_values+4>
cpsr           0x60200000           [ EL=0 BTYPE=0 SS C Z ]
fpsr           0x0                  [ ]
fpcr           0x0                  [ Len=0 Stride=0 RMode=0 ]
tpidr          0xffffa8bb50a0        0xffffa8bb50a0
tpidr2         0x0                  0x0
pauth_dmask    0x7f000000000000      35747322042253312
pauth_cmask    0x7f000000000000      35747322042253312
6                    mov fp, sp
```

```
(gdb) si
x0              0xfffffa7a28dc          281474884053212
x1              0xfffffa7a28d8          281474884053208
x2              0xfffffa7a28d4          281474884053204
x3              0x4007f4                4196340
x4              0xffffa8bb4aa0          281473512589984
x5              0x4cd18e47aa65d63b      5535361855467673147
x6              0x0                     0
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                     0
x26             0xffffa8bc1000          281473512640512
x27             0x41fdc0                4324800
x28             0x0                     0
x29             0xfffffa7a28b0          281474884053168
x30             0x400914                4196628
sp              0xfffffa7a28b0          0xfffffa7a28b0
pc              0x4009a0                0x4009a0 <add_values+8>
cpsr            0x60200000              [ EL=0 BTYPE=0 SS C Z ]
fpsr            0x0                     [ ]
fpcr            0x0                     [ Len=0 Stride=0 RMode=0 ]
tpidr           0xffffa8bb50a0          0xffffa8bb50a0
tpidr2          0x0                     0x0
pauth_dmask     0x7f000000000000        35747322042253312
pauth_cmask     0x7f000000000000        35747322042253312
8                       ldr w3, [x0]
```

```
(gdb) si
x0             0xfffffa7a28dc      281474884053212
x1             0xfffffa7a28d8      281474884053208
x2             0xfffffa7a28d4      281474884053204
x3             0x20                32
x4             0xffffa8bb4aa0      281473512589984
x5             0x4cd18e47aa65d63b  5535361855467673147
x6             0x0                 0
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                 0
x26            0xffffa8bc1000      281473512640512
x27            0x41fdc0            4324800
x28            0x0                 0
x29            0xfffffa7a28b0      281474884053168
x30            0x400914            4196628
sp             0xfffffa7a28b0      0xfffffa7a28b0
pc             0x4009a4            0x4009a4 <add_values+12>
cpsr           0x60200000          [ EL=0 BTYPE=0 SS C Z ]
fpsr           0x0                 [ ]
fpcr           0x0                 [ Len=0 Stride=0 RMode=0 ]
tpidr          0xffffa8bb50a0      0xffffa8bb50a0
tpidr2         0x0                 0x0
pauth_dmask    0x7f000000000000    35747322042253312
pauth_cmask    0x7f000000000000    35747322042253312
9              ldr w4, [x1]
```

```
(gdb) si
x0              0xfffffa7a28dc      281474884053212
x1              0xfffffa7a28d8      281474884053208
x2              0xfffffa7a28d4      281474884053204
x3              0x20                32
x4              0xa                 10
x5              0x4cd18e47aa65d63b  5535361855467673147
x6              0x0                 0
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                 0
x26             0xffffa8bc1000      281473512640512
x27             0x41fdc0            4324800
x28             0x0                 0
x29             0xfffffa7a28b0      281474884053168
x30             0x400914            4196628
sp              0xfffffa7a28b0      0xfffffa7a28b0
pc              0x4009a8            0x4009a8 <add_values+16>
cpsr            0x60200000          [ EL=0 BTYPE=0 SS C Z ]
fpsr            0x0                 [ ]
fpcr            0x0                 [ Len=0 Stride=0 RMode=0 ]
tpidr           0xffffa8bb50a0      0xffffa8bb50a0
tpidr2          0x0                 0x0
pauth_dmask     0x7f000000000000    35747322042253312
pauth_cmask     0x7f000000000000    35747322042253312
10          add w5, w3, w4
```

```
(gdb) si
x0             0xfffffa7a28dc      281474884053212
x1             0xfffffa7a28d8      281474884053208
x2             0xfffffa7a28d4      281474884053204
x3             0x20                32
x4             0xa                 10
x5             0x2a                42
x6             0x0                 0
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                 0
x26            0xffffa8bc1000      281473512640512
x27            0x41fdc0            4324800
x28            0x0                 0
x29            0xfffffa7a28b0      281474884053168
x30            0x400914            4196628
sp             0xfffffa7a28b0      0xfffffa7a28b0
pc             0x4009ac            0x4009ac <add_values+20>
cpsr           0x60200000          [ EL=0 BTYPE=0 SS C Z ]
fpsr           0x0                 [ ]
fpcr           0x0                 [ Len=0 Stride=0 RMode=0 ]
tpidr          0xffffa8bb50a0      0xffffa8bb50a0
tpidr2         0x0                 0x0
pauth_dmask    0x7f000000000000    35747322042253312
pauth_cmask    0x7f000000000000    35747322042253312
11             str  w5, [x2]
```

```
(gdb) si
x0              0xffffffa7a28dc          281474884053212
x1              0xffffffa7a28d8          281474884053208
x2              0xffffffa7a28d4          281474884053204
x3              0x20                     32
x4              0xa                      10
x5              0x2a                     42
x6              0x0                      0
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             0xffffffa7a2a58          281474884053592
x20             0x1                      1
x21             0x41fdc0                 4324800
x22             0x4007f4                 4196340
x23             0xffffffa7a2a68          281474884053608
x24             0xffffa8bc0b20           281473512639264
x25             0x0                      0
x26             0xffffa8bc1000           281473512640512
x27             0x41fdc0                 4324800
x28             0x0                      0
x29             0xffffffa7a28b0          281474884053168
x30             0x400914                 4196628
sp              0xffffffa7a28b0          0xffffffa7a28b0
pc              0x4009b0                 0x4009b0 <add_values+24>
cpsr            0x60200000               [ EL=0 BTYPE=0 SS C Z ]
fpsr            0x0                      [ ]
fpcr            0x0                      [ Len=0 Stride=0 RMode=0 ]
tpidr           0xffffa8bb50a0           0xffffa8bb50a0
tpidr2          0x0                      0x0
pauth_dmask     0x7f000000000000          35747322042253312
pauth_cmask     0x7f000000000000          35747322042253312
13              ldp fp, lr, [sp], #16
```

```
(gdb) si
x0             0xfffffa7a28dc      281474884053212
x1             0xfffffa7a28d8      281474884053208
x2             0xfffffa7a28d4      281474884053204
x3             0x20                32
x4             0xa                 10
x5             0x2a                42
x6             0x0                 0
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                 0
x26            0xffffa8bc1000      281473512640512
x27            0x41fdc0            4324800
x28            0x0                 0
x29            0xfffffa7a28c0      281474884053184
x30            0x400914            4196628
sp             0xfffffa7a28c0      0xfffffa7a28c0
pc             0x4009b4            0x4009b4 <add_values+28>
cpsr           0x60200000          [ EL=0 BTYPE=0 SS C Z ]
fpsr           0x0                 [ ]
fpcr           0x0                 [ Len=0 Stride=0 RMode=0 ]
tpidr          0xffffa8bb50a0      0xffffa8bb50a0
tpidr2         0x0                 0x0
pauth_dmask    0x7f000000000000    35747322042253312
pauth_cmask    0x7f000000000000    35747322042253312
15            ret
```