```
Address
                           Contents
           [0x7fffffc]
                          00 00 80 1c
                                         saved pc
                                                           _cstart frame
           [0x7fffff8]
                          00 00 80 0c
                                         saved Lr
                          08 00 00 00
           [0x7fffff4]
                                         saved ip
          [0x7fffff0]
                          00 00 00 00
                                         saved fp
          [0x7ffffec]
                          00 00 80 c4
                                         saved pc
                                                          main frame
           [0x7ffffe8]
                          00 00 80 40
                                         saved Lr
           [0x7ffffe4]
                          07 ff ff f0
                                         saved ip
                                         saved fp
          [0x7ffffe0]
                          07 ff ff fc
          [0x7ffffdc]
                          00 00 00 00
           [0x7ffffd8]
                          00 00 61 00
                                         saved pc
          [0x7ffffd4]
                          00 00 80 94
                                                          winky frame
          [0x7ffffd0]
                          00 00 80 d0
                                         saved Lr
          [0x7ffffcc]
                          07 ff ff d8
                                         saved ip
                                         saved fp
           [0x7ffffc8]
                          07 ff ff ec
          [0x7ffffc4]
                          00 00 00 00
           [0x7ffffc0]
                          00 00 80 e0
fp =>
           [0x7ffffbc]
                          00 00 80 78
                                         saved pc
                                                          binky frame
           [0x7ffffb8]
                          00 00 80 a8
                                         saved Lr
                          07 ff ff c0
          [0x7ffffb4]
                                         saved ip
                          07 ff ff d4
          [0x7ffffb0]
sp =>
                                         saved fp
                        /////////////
               0x80d8]
                          e1 2f ff 1e
                                         <main+32>
                                                          bx
                                                                    lr
                          e8 9d 68 00
               0x80d4]
                                         <main+28>
                                                                    sp, {fp, sp, lr}
                                                          ldm
          [
               0x80d0]
                          e2 4b d0 0c
                                         <main+24>
                                                                    sp, fp, #12
                                                          sub
          [
               0x80cc]
                          eb ff ff ed
                                         <main+20>
                                                          bl
                                                                    0x8088 <winky>
                                         <main+16>
                                                                    r0, fp, #20
          [
               0x80c8]
                          e2 4b 00 14
                                                          sub
               0x80c4]
                          e2 4d d0 08
          [
                                         <main+12>
                                                          sub
                                                                    sp, sp, #8
               0x80c0]
                          e2 4c b0 04
                                         <main+8>
                                                          sub
                                                                    fp, ip, #4
          [
               0x80bc]
                                                                    {fp, ip, lr, pc}
          [
                          e9 2d d8 00
                                         <main+4>
                                                          push
          [
               0x80b8]
                          e1 a0 c0 0d
                                         <main+0>
                                                                    ip, sp
                                                          mov
               0x80b4]
                          e1 2f ff 1e
                                         <winky+44>
                                                                    lr
          [
                                                          bx
          [
               0x80b0]
                          e8 9d 68 18
                                         <winky+40>
                                                          ldm
                                                                    sp, {r3, r4, fp, sp, lr}
          [
               0x80ac]
                          e2 4b d0 14
                                         <winky+36>
                                                          sub
                                                                    sp, fp, #20
                                                                    r0, r4, r0
               0x80a8]
                          e0 84 00 00
                                         <winky+32>
          [
                                                          add
                                                                    0x806c <binky>
               0x80a4]
                          eb ff ff f0
                                         <winky+28>
                                                          bl
          [
               0x80a0]
                          e3 a0 00 09
                                         <winky+24>
                                                                    r0, #9
          [
                                                          mov
               0x809c]
                                         <winky+20>
                                                                    r3, [r0, #1]
          [
                          e5 c0 30 01
                                                          strb
               0x8098]
                          e3 a0 30 61
                                         <winky+16>
                                                                    r3, #97
          [
                                                          mov
          [
               0x8094]
                          e1 a0 40 00
                                         <winky+12>
                                                                    r4, r0
                                                          mov
          [
               0x8090]
                          e2 4c b0 04
                                         <winky+8>
                                                          sub
                                                                    fp, ip, #4
               0x808c]
                          e9 2d d8 18
                                         <winky+4>
                                                                    {r3, r4, fp, ip, lr, pc}
          [
                                                          push
          [
               0x8088]
                          e1 a0 c0 0d
                                         <winky+0>
                                                          mov
                                                                    ip, sp
                          e1 2f ff 1e
          [
               0x8084]
                                         <br/>
<br/>
<br/>
dinky+24>
                                                          bx
                                                                    lr
               0x8080]
                          e8 9d 68 00
                                         <binky+20>
          [
                                                          ldm
                                                                    sp, {fp, sp, lr}
          [
               0x807c]
                          e2 4b d0 0c
                                         <br/>
<br/>
<br/>
dinky+16>
                                                          sub
                                                                    sp, fp, #12
pc =>
                                         <br/>
<br/>
dinky+12>
          [
               0x8078]
                          e2 80 00 02
                                                          add
                                                                    r0, r0, #2
               0x8074]
                          e2 4c b0 04
                                         <br/><br/>ky+8>
                                                                    fp, ip, #4
          [
                                                          sub
               0x8070]
          [
                          e9 2d d8 00
                                         <binky+4>
                                                          push
                                                                    {fp, ip, lr, pc}
          [
               0x806c]
                          e1 a0 c0 0d
                                         <br/><br/>binky+0>
                                                          mov
                                                                    ip, sp
                                                                    0x20200000
          [
               0x8068]
                          20 20 00 00
                                         <_cstart+88>
                                                           .word
                                                                    0x80e0
               0x8064]
                                         <_cstart+84>
          [
                          00 00 80 e0
                                                           .word
                                                                    0x80dc
          [
               0x8060]
                          00 00 80 dc
                                         <_cstart+80>
                                                           .word
          [
               0x805c]
                          e1 2f ff 1e
                                         <_cstart+76>
                                                                    lr
                                                          bx
               0x8058]
                          e8 9d 68 00
          [
                                         <_cstart+72>
                                                          ldm
                                                                    sp, {fp, sp, lr}
               0x8054]
                          e2 4b d0 0c
                                         <_cstart+68>
                                                                    sp, fp, #12
                                                          sub
               0x8050]
                                         <_cstart+64>
          [
                          e5 83 20 20
                                                          str
                                                                    r2, [r3, #32]
                          e3 a0 29 02
                                         <_cstart+60>
                                                                    r2, #32768
               0x8048]
                          e5 83 20 10
                                                                    r2, [r3, #16]
                                         <_cstart+56>
                                                          str
               0x8044]
                          e3 a0 26 02
                                         <_cstart+52>
                                                                    r2, #2097152
                                                          mov
               0x8040]
                          e5 9f 30 20
                                                                    r3, [pc, #32]
                                                          ldr
                                         <_cstart+48>
               0x803c]
                          eb 00 00 1d
                                                                    0x80b8 <main>
          [
                                         <_cstart+44>
                                                          bl
               0x8038]
                          3a ff ff fb
                                         <_cstart+40>
                                                                    0x802c <_cstart+28>
          [
                                                          bcc
                                         <_cstart+36>
               0x8034]
                          e1 53 00 02
                                                                    r3, r2
          [
                                                          cmp
               0x8030]
                                         <_cstart+32>
                                                                    r3, r3, #4
          [
                          e2 83 30 04
                                                          add
               0x802c]
                          e5 83 10 00
                                         <_cstart+28>
                                                          str
                                                                    r1, [r3]
          [
               0x8028]
                          ea 00 00 01
                                         <_cstart+24>
                                                                    0x8034 <_cstart+36>
          [
                                                          b
                          e3 a0 10 00
                                                                    r1, #0
          [
               0x8024]
                                         <_cstart+20>
                                                          mov
                                                                    r2, [pc, #60]
          [
               0x8020]
                          e5 9f 20 3c
                                         <_cstart+16>
                                                          ldr
                                                                    r3, [pc, #60]
               0x801c]
                          e5 9f 30 3c
                                         <_cstart+12>
          [
                                                          ldr
               0x8018]
                                                                    fp, ip, #4
                          e2 4c b0 04
                                         <_cstart+8>
                                                          sub
          [
          [
               0x8014]
                          e9 2d d8 00
                                         <_cstart+4>
                                                          push
                                                                    {fp, ip, lr, pc}
               0x8010]
                                         <_cstart+0>
                          e1 a0 c0 0d
                                                          mov
                                                                    ip, sp
          [
          [
               0x800c]
                          ea ff ff fe
                                         <hang+0>
                                                          b
                                                                    0x800c <hang>
               0x8008]
          [
                          eb 00 00 00
                                         <_start+8>
                                                          bl
                                                                    0x8010 <_cstart>
                          e3 a0 b0 00
               0x8004]
                                         <_start+4>
                                                                    fp, #0
          [
                                                          mov
                                                                    sp, #134217728
               0x8000]
                          e3 a0 d3 02
                                         <_start+0>
          [
                                                          mov
               0x8018]
                                                                    fp, ip, #4
          [
                          e2 4c b0 04
                                         <_cstart+8>
                                                          sub
               0x8014]
                          e9 2d d8 00
                                                                    {fp, ip, lr, pc}
          [
                                         <_cstart+4>
                                                          push
               0x8010]
                                         <_cstart+0>
                          e1 a0 c0 0d
                                                          mov
                                                                    ip, sp
          [
          [
               0x800c]
                          ea ff ff fe
                                         <hang+0>
                                                          b
                                                                    0x800c <hang>
          [
               0x8008]
                          eb 00 00 00
                                         <_start+8>
                                                                    0x8010 <_cstart>
                                                          bl
               0x8004]
                          e3 a0 b0 00
                                         <_start+4>
                                                                    fp, #0
          [
                                                          mov
                                                                    sp, #134217728
          [
               0x8000]
                          e3 a0 d3 02
                                         <_start+0>
                                                          mov
               0x8004]
          [
                          e3 a0 b0 00
                                         <_start+4>
                                                          mov
                                                                    fp, #0
              0x8000]
                          e3 a0 d3 02
                                         <_start+0>
                                                                    sp, #134217728
                                                          mov
```