Table

Description automatically generated

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Label | PC | Instruction | %rdi | %rsi | %rax | %rsp | \*%rsp | Description |
| M1 | 0x400560 | callq | 10 | - | - | 0x7fffffffe820 | - | Call first(10) |
| F1 | 0x400458 | lea | 10 | 11 | - | 0x7fffffffe818 | 0x400565 | Entry of First |
| F2 | 0x40054c | sub | 9 | 11 | - | 0x7fffffffe818 | 0x400565 | X – 1 |
| F3 | 0x400550 | callq | 9 | 11 | - | 0x7fffffffe818 | 0x400565 | Call last(x-1, x+1) |
| L1 | 0x400540 | mov | 9 | 11 | 9 | 0x7fffffffe810 | 0x400555 | Entry of last |
| L2 | 0x400543 | imul | 9 | 11 | 99 | 0x7fffffffe810 | 0x400555 | u \* v |
| L3 | 0x400547 | retq | 9 | 11 | 99 | 0x7fffffffe810 | 0x400555 | Return 99 from last |
| F4 | 0x400555 | repz retq | 9 | 11 | 99 | 0x7fffffffe818 | 0x400565 | Return 99 from first |
| M2 | 0x400565 | Mov | 9 | 11 | 99 | 0x7fffffffe820 | - | Resume main |

Table

Description automatically generated

A picture containing chart

Description automatically generated

|  |  |  |
| --- | --- | --- |
| Value | Calle saved | Stack saved |
| 0 | X |  |
| 1 | X |  |
| 2 | X |  |
| 3 | X |  |
| 4 | X |  |
| 5 | X |  |
| 6 |  | X |
| 7 |  | X |

C: Text, letter

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated  
A

|  |  |
| --- | --- |
| 00 00 00 00 00 40 07 76 | Return address |
| 00 00 00 00 00 10 07 6C |  |
|  |  |
|  |  |
|  |  |

Text, letter

Description automatically generated

Text, letter

Description automatically generated

Text, letter

Description automatically generated

