| | | Address | Value | | | | Label | |
|---|---|---|---|---|---|---|---|---|
| Read-only memory | | 0x40094c | o | r | i | g | "origin" | string literal |
| | | | i | n | \0 | | | |
| | | 0x40095e | t | r | a | n | "trans" | string literal |
| | | | s | \0 | | | | |
| Stack | | ... | | | | | | |
| | | ... | | | | | | |
| | setname (2$^{nd}$ call) | 0x7fff7fd3ad80 | 0x40095e | | | | name | *(After 2$^{nd}$ setname returns, setname's stack frame disappears)* |
| | | 0x7fff7fd3ad88 | 0xe75030 | | | | p | |
| | setname (1$^{st}$ call) | 0x7fff7fd3ad80 | 0x40094c | | | | name | *(After setname returns, setname's stack frame disappears)* |
| | | 0x7fff7fd3ad88 | 0x7fff7fd3adc0 | | | | p | |
| | | ... | | | | | | |
| | main | 0x7fff7fd3adb8 | 0xe75030 | | | | r | |
| | | 0x7fff7fd3adc0 | 0xe75010 | | | | q.name | q |
| | | 0x7fff7fd3adc8 | 15 | | | | q.x | |
| | | 0x7fff7fd3adcc | 20 | | | | q.y | |
| | | | | | | | | |
| Heap | | | | | | | | |
| | | 0xe75010 | o | r | i | g | *q.name | |
| | | | i | n | \0 | | | |
| | | ... | | | | | | |
| | | 0xe75030 | 0xe75050 | | | | r->name | *r |
| | | 0xe75038 | 25 | | | | r->x | |
| | | 0xe7503c | 30 | | | | r->y | |
| | | ... | | | | | | |
| | | 0xe75050 | t | r | a | n | *(r->name) | |
| | | | s | \0 | | | | |