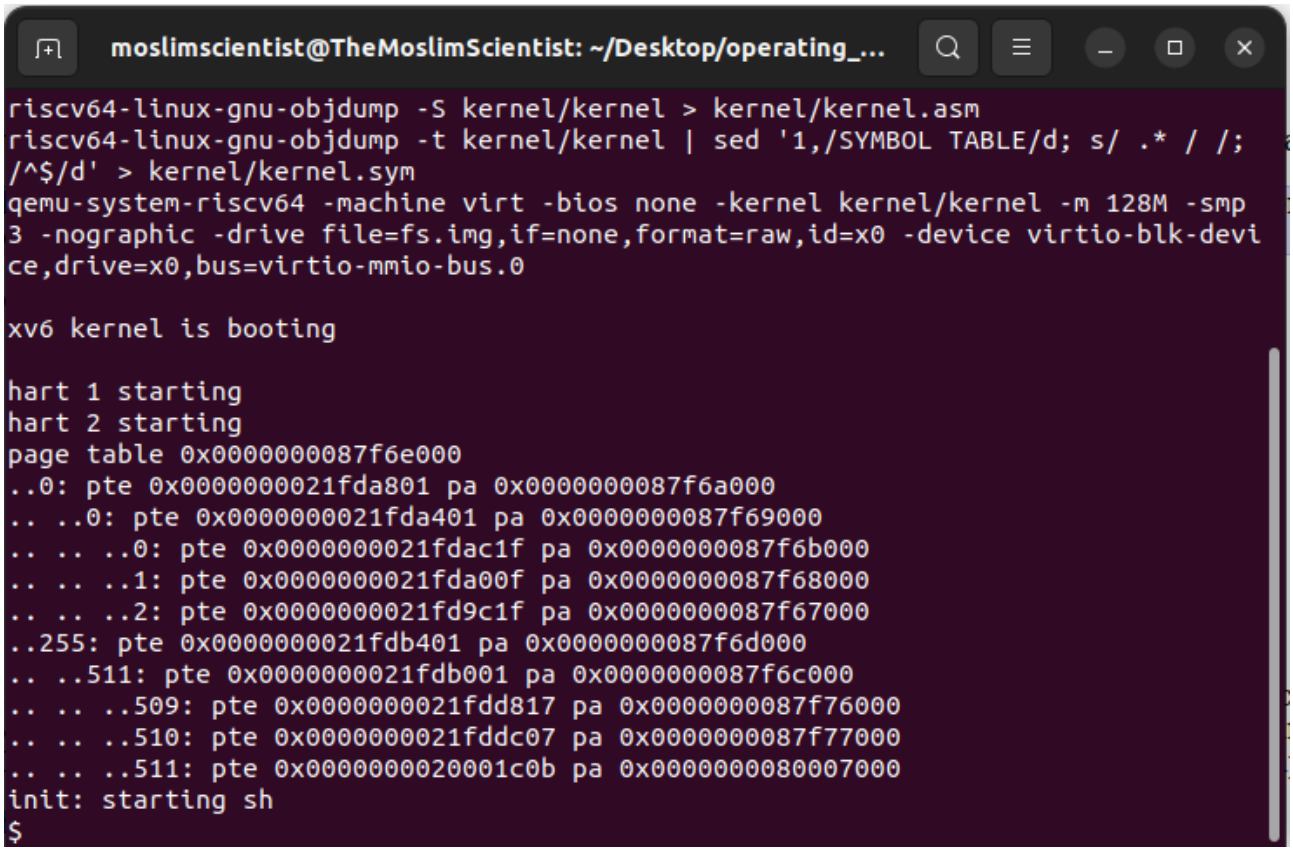
- The output resulted from running uvmprint of the first process with PID =1:



- Explain the output of `vmprint` in terms of Fig 3-4 from the text. What does page 0 contain? What is in page 2? When running in user mode, could the process read/write the memory mapped by page 1? What does the third to last page contain?

The physical address of page 0 is 0x0000000087f6b000
The physical address of page 1 is 0x0000000087f68000
page 1 entry in the page table is 0x0000000021fda00f so the last 5 bits are 01111 . hence PTE_U = 0 and so we can't access this bit in the user space.
Since page 3 to last page aren't mapped in this process then no data exist in this space.

Page 0 of the page table contains a page table of 512 entries each with 28 bits. Each entry is a physical address of a page table. It contains a valid entry in the first entry and the last entry which are 0x0000000021fda801 , 0x0000000021fdb401.
Page 2 contains addresses of the third level page tables. One only is valid which is 0x0000000021fda401.
Page 1 is mapping in the page table with value = 0x0000000021fdac1f. Since the last 5 bits are 1's PTE_R , PTE_W = 1, PTE_U = 1 , hence we can read or write from them in user mode.
Pages from 3 to last page contain the addresses of the last pages in the memory which are:
`0x0000000021fdd813 , 0x0000000021fddc07 , 0x0000000020001c0b.`

- The result from seeing the pages that are accessed: