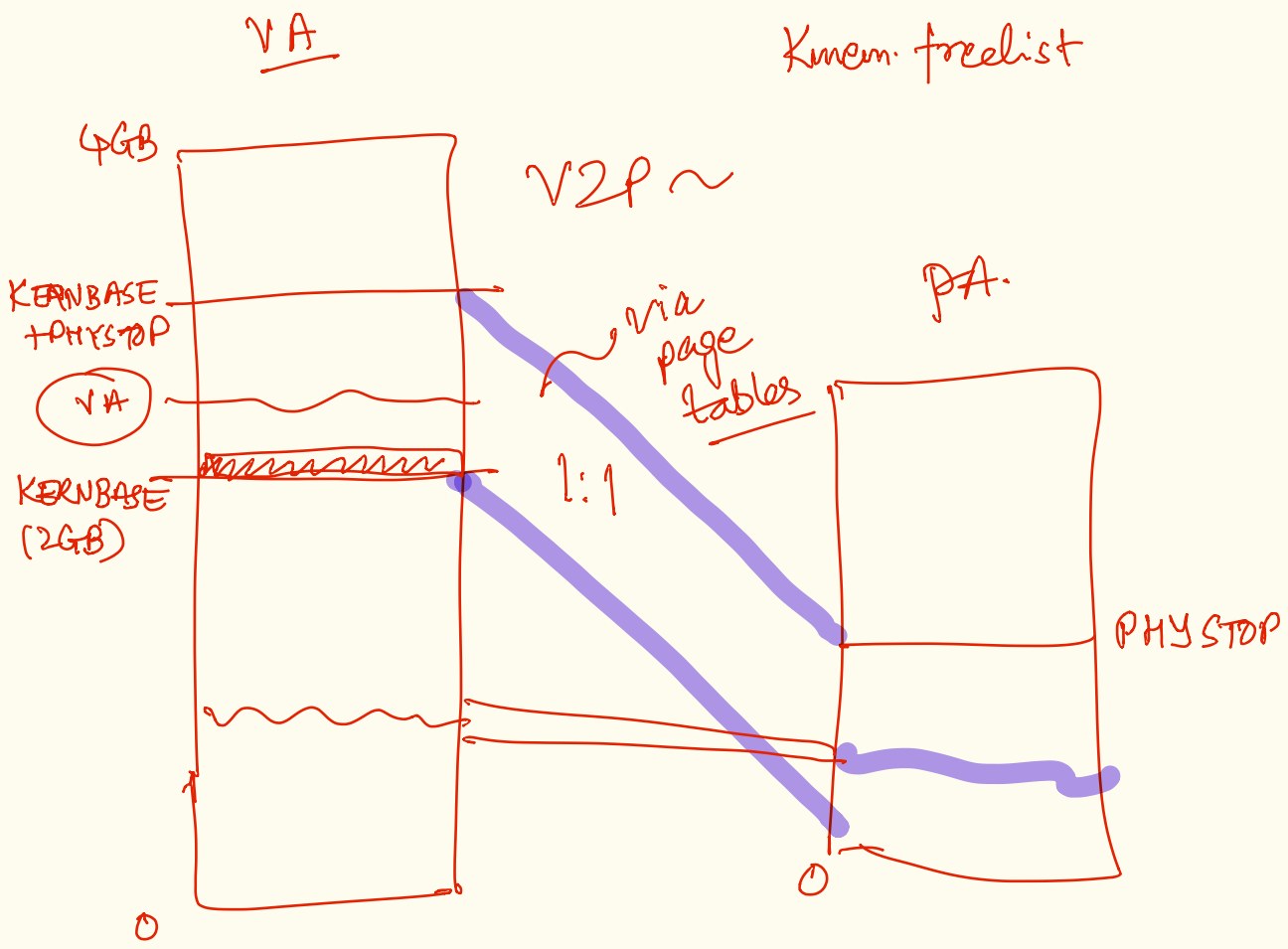


# # h/w support for paging.

real mode vs protected mode of CPU

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>- no privilege levels</li> <li>- <del>VA</del> = PA</li> <li>- OS works for a bit in this mode during bootup.</li> </ul> | } | <ul style="list-style-type: none"> <li>- multiple privilege levels.</li> <li>- logical (virtual) address translated to a <u>physical</u> address</li> <li>- even <u>OS</u> addresses!</li> </ul> |
|---|---|--|

XV6  
memory map of a ~~process~~ process



(\*) the OS is part of every process!  
Kernel (processes address space)

