MAHAGURU | Page No. OS- HW3 2016 E F 10442 to PA Ox ooloooo with read only purissions Page Directory offset: 0512 (0x 200)

PTE-P=1 PTE-WZO PTE-U=6

The will point to entry at in a page table

Page ... Page: Tuble Offset: 256 (0x100) PTE-P=1, PTE-W=0, PTE-U=0 It will point 0x 00100000 physical address Page Table Reload: (gdb) paint/x kpgcl. [6] why is this zero? The SetupKuml) function has mapped the visitual results in the mapped entries beginning from 5/2 th [0x200] indoc. All entries before are upmapped & how Kpgdia [0] is Zero.

| | | (MAHAGURU) Paga Ho. (Data) |
|---|------|--|
| 8 |) | How would we tronslate Ox80107 beb to a properly address? Subtenct KERN-BASE (0x80000000) from the virtual |
| 4 | 2 | Subtrack KERN-18110 (DLSO) address. (gdb) printely kpgdis[011700] \$6: 0x 114007 |
| | g · | What is this? This the page disectory ontry corresponding to the page which contains the physical address |
| | 3: | mapped to the vistual address 0x 801076et. What is the PPN? Or 114 is the PPN |
| | 3. | What does the son of mean It means the page is present PTE-P = 1 page is writable [PTE-V=I], and page is accessed in superior and [PTE-V=I] |
| | | (gdb) print)x (int) 0x114000) [0x207] \$12 = 0x (07 00) |
| | 3: → | What is this? The is the page table entry & indicates the location of starting address of the page containing VA Ox Soicist |
| | 0 | |

S: Why I in the Low bits?

The indicates that the page is present (PTE-P=1) O: Why did the physical address work in the gdb.

Setup KVMC) is used to set up the page tables but paging is not yet enabled. Hence, there is an identity mapping from VA to PA. Thus, physical address can be accused directly via gdb. Why? B: (346) x/i Ox 10766 Switch Krm() enables paging by loading the kpgdint into 1. (23. After this point, all address will be treated as virtual & be decoded using the pagin mechanism which maps address above KERNBASO Hera, we cannot access 0x107 beb directly.

| | | MAHAGURU Paga No. | |
|------------------------|--|--|-----|
| | | Dotte | |
| 2. 1 | | Traps | |
| 1 | | | (|
| | - &. | THE POPULATION THE DESCRIPTION OF THE POPULATION | |
| 7 | | "tappane" structure of the Krack? | |
|) | \rightarrow | No, two context stanting one ne possible on | > 1 |
|) | | as he the time track is Durid | |
| 7 | | switch would have abendy occured. Moreover, intercepts are disabled while preshing sortext. | 3 |
| A company | | are disabled while pushing sortext. | |
| Marie Company | | | |
| and or one | ۵. | Is it possible to have two trappeare structures & are | 9. |
| - | | Context standard on the Kstack? | |
| - | \rightarrow | Yes, it is possible when a user process is interrupted | -> |
| A | | Les it is possible when a use process is interrupted & it starts hunorg instanctions from the Kstack. While | |
| | | surring in the Kend made, if a timed inturupt | |
| - | | occues, Keenel will store context & switch to another | 8, |
| - | | process. The two teappares, oust, an for user system | |
| White far, description | | coll & another one for Kund made interrupt, but only | |
| | | a single context signiture is there. | - |
| | 8. | Is it possible to have more than 3 sets of Saved Registy | |
| | | in The Katack? If so wher? | |
| | | | |
| | -> | The state of the s | |
| | | possible & heree only 2 sets of somed ragisters. It is | 6 |
| _ | | ensued using locks & disting external insurvers. | - |
| | | Moneyer, in theory, the others sets of rigisters | |
| | | are possible in an OS where estaral intoxupts are | 4 |
| | | nok disabled, | 1 |
| ás: | And the second s | 는 바이 경우되는 경우 하는 경우를 가면 하면서 다른 경우에는 그들은 사람들이 되었다. 그는 | |

| and the second residence in the | MAHAGURU Page No. Date | |
|--|--|--|
| | Cato | |
| | The state of the s | Control of the Control |
| | Costest Sweding | College |
| _ & | | erfolgerschunge |
| 1 | Whole is the stack that School executes as? | 64Mentaco |
| - | | pard mo |
| | The Kstack of the nuring process | apella co |
| 3 | White it is a second of the se | |
| | Stack that school will | Shire will be |
| Section and of the con- | Die Marie Ma | 0 |
| | in maiore | |
| a. | Whose schools allowed the | - |
| | when schede all sutche), does that all to sure | rdl |
| | evel seturn? If so, when. | |
| -> | Tes, when the Scheduler Scheduler the process to execute again, the control returns back to schedul. | |
| - 1 | to execute the process | |
| 2 | school). | |
| | | |
| 8 | Could Switch() do less work & still be correct? | |
| 7 | Could the side the circulate & Still be consect? | Minutes and Co. 10 |
| | Could we siduce the size of struct context? | |
| - | No the size of stout motort is | |
| | no, the size of struct context can't be reduce & next could switch do loss work as they are both | M |
| The second secon | somisal to consulting are both | |
| The state of the s | registels to conseculty some stone the caller sowed registels to thinten goe calling conventions are maintained conseculty. | |
| The second secon | majotained free the got the conventions are | |
| And the control of | more consecue. | |
| 9. | What is the Asharaki a Hara | - |
| → · | What is the 4 character pattern? | and the same of th |
| Orean | | a) w Santana |
| 8. | Joil 11 morning) - Me He was the | erii anguranga |
| → # | The very first characters are ac. Why? Toitially mporaise calls the schedules the first time where a is printed & the first process begins to execute when it sleeps, it goes to schede for the 1st time & c'is a | und strikenien |
| Billion or property | when I stop is the first process begins to execute | , , |
| eritario respectività | will be school) for the 1st time & cisa | dp |