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Message Board

Course: CSC501 - 001
Forum: PA3 discussion

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Author	Topic: Mapping more npages than what's returned by get_bs()

adhanas Tue Mar 25 10:55   Who

Should a process be allowed to ask for a mapping for 'x+y' pages even when get_bs() has returned only 'x'?

```
Eg.,
procA() {
// 1
get_bs(BS1, 80);
// 3
xmmap(6000, BS1, 80);
}

procB() {
// 2
get_bs(BS1, 100);

// 4
xmmap(8000, BS1, 100);
}
```

In the above example, the comments denote the order of execution. Now, '2' would return 80, despite that procB is trying to map for 100 pages. What should be the expected behavior?

On a similar note, what should happen if procB tries to map for a smaller value other than what get_bs() returned? i.e., '2' can be modified to "get_bs(BS1, 50)"

aborulk Tue Mar 25 18:55   Who

A similar question, the npages in get_bs() and xmmap() function calls should be the same right? Are we supposed to handle this check as well?

aabhole Tue Mar 25 21:27   Who

@adhanas : your second question has been answered in the following thread:

http://classic.wolfware.ncsu.edu/wrap-bin/mesgboard/csc:501::001:1:2014?task=ST&Forum=5&Topic=36

So if '2' is modified to "get_bs(BS1, 50)", it will still return the value 80

aabhole   Tue Mar 25 21:37   Who

But I still have the other query being discussed here. As aborulk/adhanas have asked:

1. What is the expected outcome if xmmap tries to map npages that are more/less than the return value of corresponding get_bs call ?

2. Can one process call xmmap twice on the same BS? If yes, what is the expected behavior? Should the previous mapping be unmapped?

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