

操作系统 作业 10

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41. With a 4096-byte page, the address space has 16 pages. The text is 8 pages, the data 5 and the stack 4, a total of 17 pages. Therefore the program does not fit.

For 512-byte pages, there are 128 available pages. The text is 64 pages, the data 33 pages and the stack 31, a total of 128 pages. Therefore the program will fit.

42. $60 - 15000 \times 0.002 + 15000/2 \times 0.002 = 45$ sec.

47. (a) Page frame 14, offset 3 (address is 0x3803).

(b) Protection fault: writing to a read/execute segment.

(c) Page fault.

(d) Protection fault: jumping to a read/write segment.