

Before main

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- xv6 is loaded continuously into physical address 0x00100000 and up.
- The `gdt` points to a temporary gdt with 3 entries:
 - The `base` field is zero in entries 1 and 2.
 - The `limit` field is maximal in entries 1 and 2.
 - Two entries are needed in order to allow data and code permissions.
- `cr3` points to a temporary page table:
 - The paging unit effect with this translation table is:

800xxxxx \mapsto 000xxxxx

801xxxxx \mapsto 001xxxxx

802xxxxx \mapsto 002xxxxx

803xxxxx \mapsto 003xxxxx

- Note, when xv6 had been built it was linked with base address 0x80100000.

self test

- Build paging table as above.
- Why xv6 had been linked into 0x80100000.