|  |  |  |  |
| --- | --- | --- | --- |
| **Executable File Header** |  |  |  |
|  | Text Size | 400 | # total combined text size |
| Data Size | 80 | # total combined data size |
| Address |  |  |
| Text Segment | 0040 0000 (the memory address for Procedure A's lw instruction) | lw $a0, X($gp) X = 8000 | # where X is the offset relative to the global pointer register to get to X in the data segment |
|  | 0040 0004 (the memory address for Procedure A's jal instruction) | jal B 0040 0300 | # where B is the (psuedo-direct)address of the Procedure A in the text segment |
| … |  |  |
| 0040 0300 (the memory address for Procefure B's lw instruction) | lw $a1, Y($gp) Y = 7fa0 | # where Y is the offset relative to the global pointer register to get to Y in the data segment |
| 0040 0304 (the memory address for Procedure A's jal instruction) | jal A 0040 0000 | # where A is the (phuedo-direct) address of Procedure B in the data segment |
| … |  |  |
| Data Segment | Address |  |  |
|  | 1000 0000 | X | # the location of X in the data section |
|  | 1000 0060 | Y | # the location of Y in the data section |