

iProject2 Write Up

Jenna Daly

Jenna.Daly1@Marist.edu

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1 IPROJECT 2

1. Explain the difference between internal and external fragmentation.

Internal fragmentation is when allocated memory may be larger than the memory itself. External fragmentation is when the size of the memory to fit is larger than one block and memory to fit it is not contiguous.

2. Given Five (5) memory partitions of 100KB, 500KB, 200KB, 300KB, and 600KB (in that order), how would optimal, First-Fit, best-Fit, and worst-Fit algorithms place processes of 212KB, 417KB, 112KB, and 426KB (in that order)?

First fit would allocate 212KB, 417KB, 112KB and 426KB to the 500KB hole since that is the first one where they each fit. Best fit would put 212KB in the 300KB hole, 417KB in 500KB, 112KB in 200KB, and 426KB in 500KB. Lastly, worst fit would put them all in the 600KB hole.

3. What is the relationship between a guest operating system and a host operating system in a system like VMware? What factors need to be considered in choosing the host operating system?

A guest OS lives on the VM and is sw. An example of a guest OS is BootCamp on the Mac which lets users VM into a Windows environment. A host OS interacts with underlying hardware and is actually installed on a computer. You should consider the needs you require from your OS when choosing one.