Task 1:

|  |  |  |
| --- | --- | --- |
| Function | Space Allocated | Space Allocated w/ background |
| Big\_function | 8052 kb | 8028 kb |
| Tiny function | 0 kb? |  |
| Pi\_approx | 0 kb? |  |
|  |  |  |

The amount of memory that linux will allocate to a process is definitely dependent on the process, it also appears that the amount of memory is not dependent on what is currently running in the system. The memory allocation of a process will change over time, in big\_function the program initially uses very little space but when it has to allocate space for a large array the amount of free space in memory drops dramatically.

TO DO: Find out how much memory a process is given on creation?

Task 2: