Local variables

argc (int)

argv (pointer)

envp (pointer)

argv[0] (pointer)

.

. each array entry is a pointer to char\*

.

argv[argc] (pointer)

envp[0] (pointer)

.

. each array entry is a pointer to char \*

.

envp[n] (pointer)

Strings for argv[]

(e.g., 1, “Hello World”)

Strings for envp[]

(e.g., “PATH=/usr/bin/env:…”)

…

Stack growth

Lower memory addresses

…

Higher memory addresses

…

Fig. Main Function’s Stack and Environment Variables and Arguments Locations