

Unit 3: Processes and Threads

3.2. Lab description: Creating Processes

Command line interpreter

- Design and implement a C program that creates a number of processes (launch.exe)

```
$ cat > launchset.txt
```

```
C:\Winnt\System32\notepad.exe jnk.txt
```

```
C:\Winnt\System32\calc.exe
```

```
C:\Winnt\System32\charmap.exe
```

```
^Z
```

```
$
```

```
$ launch launchset.txt
```

- Demonstrate your program!

Code Skeleton

```
# include <windows.h>
# include <stdio.h>

int main(int argc, char * argv[]) {
    FILE *fd;
    char * cmdLine;
    // read command line parameters: (argc == 2) && (argv[1] == fname) ?
    fd = fopen( argv[1], „r“);
    while (fgets(cmdLine, MAX_LINE_LEN, fd) != NULL) {
        // create new process to execute command
    }
    // Terminate after all commands have finished – read in MSDN
    // or create detached processes (dwCreationFlags =
    DETACHED_PROCESS)
}
```