

CSI 402 – Systems Programming – Handout 14.4

An Example to Illustrate the use of atexit Routine

Note: In the following example, the `main` function registers three functions (namely, `f1`, `f2` and `f3`) to be called when the process exits. Note that the order in which the functions are called is the reverse of the order of registration.

```
/* A simple example to illustrate the use of at_exit. */

#include <stdio.h>
#include <stdlib.h>

int main(void) {
    void f1(void), f2(void), f3(void);

    atexit(f1); atexit(f2); atexit(f3);
    exit(0);
} /* End of main. */

/* Each function below just prints a short message and then returns. */

void f1(void) {
    fprintf(stderr, "In function f1.\n");
    return;
} /* End of f1. */

void f2(void) {
    fprintf(stderr, "In function f2.\n");
    return;
} /* End of f2. */

void f3(void) {
    fprintf(stderr, "In function f3.\n");
    return;
} /* End of f3. */
```

Output:

```
In function f3.
In function f2.
In function f1.
```