## SEMINAR 10 PROCESS IMAGE REPLACEMENT

### NOTE ON MAIN SIGNATURES

```
int main() { ... }
int main(int argc, char *argv[]) { ... }
int main(int argc, char *argv[], char *envp[]) { ... }
```

## THE THIRD OPTION IS NOT POSIX-COMPATIBLE! CONSIDER ENVIRON OR GETENV

## REPLACING PROCESS IMAGE

## THIS SEEMS INCONVENIENT IN CERTAIN CASES

#### WONDERFUL WORLD OF WRAPPERS

```
int execl(const char *pathname, const char *arg, ...,
                                    (char *) NULL);
int execlp(const char *file, const char *arg, ...,
                                    (char *) NULL);
int execle(const char *file, const char *arg, ...,
              (char *) NULL, char * const envp[]);
int execv(const char *pathname, char * const argv[]);
int execvp(const char *file, char * const argv[]);
int execvpe(const char *file, char * const argv[],
                              char * const envp[]);
```

#### WHAT DO LETTERS MEAN?

- > L AND V VARIADIC AND ARRAY
  - > P SEARCH IN PATH
- > E SPECIFY THE ENVIRONMENT

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