Environment variables ....

int main (int argc, char **argv, char **envp)

- Array of strings
- Each string of form "name=value"
- Last entry is NULL
- Examples:
  - HOME=/home/phil
  - CVSROOT=/home/phil/CVSrep

- int execve(const char *path, char *const argv[], char *const envp[])
- int execvp(const char *path, char *const argv[])
  - Access via "extern char **environ;"
  - (*BSD, man environ(7))

Program access to environment variables

- Access via "extern char **environ;"
- Library calls access ... easier
  - char *getenv(const char *name)
    - standard on all UNIX systems
    - returns a pointer to value in array
    - Do not free() returned pointer.
    - Depending on use, use strdup(3).
  - int setenv(const char *name, const char *value, int overwrite);
  - int putenv(const char *string);
  - void unsetenv(const char *name);
    - *BSD standard and linux

Changing Directories

- chdir(2)
- int chdir(const char *path);
  - sets the working directory
- Return Values
  - 0 if successful
  - -1 if failed, errno has error