xargs — Command

Execute a command with many arguments
xargs *command argument ... argument*

COHERENT limits the amount of memory available to hold a command's arguments; therefore, a command will fail if its list of arguments exceeds this limit. This limit is set by the constant **BUFSIZ**, which is defined in the header file **stdio.h**.

To avoid this problem, COHERENT offers the command **xargs**. This command executes *command* and passes to it every *argument*. An *argument* can be an option to *command*, the name of a file, or anything else that *commands* expects. **xargs** then redirects the standard input into *command*. **xargs** is careful not to exceed the system-imposed limit, which is expected to be greater than **BUFSIZ**. It continues to execute *command* with the read-in arguments until it reaches end-of-file.

See Also

commands, exec, execution

Notes

The COHERENT implementation of **xargs** performs only the most basic — and most important — behaviors of **xargs**. You must rewrite all scripts that depend upon the more exotic behaviors of the System-V implementation of **xargs**.

xgcd() — Multiple-Precision Mathematics (libmp)

Extended greatest-common-divisor function
#include <mprec.h>
void xgcd(*a, b, r, s, g***)**
mint **a, *b, *r, *s, *g;*

xgcd() is an extended version of the greatest-common-division function. It sets the multiple-precision integer (or **mint**) pointed to by *g* to the greatest common divisor of the **mint** pointed to by *a* and that pointed to by *b*. It also sets the **mint**s pointed to by *r* and *s* so the following relation holds:

$$g = a \times r + b \times s$$

r, *s*, and *g* must all be distinct.

See Also

libmp