

**NAME**

units -- conversion program

**SYNOPSIS**

units

**DESCRIPTION**

*Units* converts quantities expressed in various standard scales to their equivalents in other scales. It works interactively in this fashion:

*You have:* inch  
*You want:* cm  
 \* 2.54000e+00  
 / 3.93701e-01

A quantity is specified as a multiplicative combination of units optionally preceded by a numeric multiplier. Powers are indicated by suffixed positive integers, division by the usual sign:

*You have:* 15 pounds force/in2  
*You want:* atm  
 \* 1.02069e+00  
 / 9.79730e-01

*Units* only does multiplicative scale changes. Thus it can convert Kelvin to Rankine, but not Centigrade to Fahrenheit. Most familiar units, abbreviations, and metric prefixes are recognized, together with a generous leavening of exotica and a few constants of nature including:

|       |  |
|-------|--|
| pi    | ratio of circumference to diameter     |
| c     | speed of light                         |
| e     | charge on an electron                  |
| g     | acceleration of gravity                |
| force | same as g                              |
| mole  | Avogadro's number                      |
| water | pressure head per unit height of water |
| au    | astronomical unit                      |

'Pound' is a unit of mass. Compound names are run together, e.g. 'lightyear'. British units that differ from their US counterparts are prefixed thus: 'brgallon'. For a complete list of units, 'cat /usr/lib/unittab'.

**FILES**

/usr/lib/unittab