

## UNITS(VI)

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### 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/units'.

### FILES

/usr/lib/units