

Miscellaneous Utilities - mostly scientific or programming utilities

Comment/Uncomment - marks text in Pascal or C source code as comments.

Special Key - by Andrew Welch inserts four characters symbolizing the command key, checkmark, diamond and apple character. These can be viewed in a document if they are in the Chicago font.

Clipboard Dump - turns the clipboard contents into a hex dump.

Constant Values - any math or physics constant like π or e that is highlighted or in the clipboard is replaced with its value.

Constant
Description
Value

π , π
numerical constant
3.1415926

e
numerical constant
2.71828182846

c
speed of light in vacuum
 $2.99792458 * 10^8$ m/s

g
acceleration due to gravity
 9.80665 m/s²

G
Newton's gravitational constant

$6.672 * 10^{-11}$ N*m²/kg²

k
Boltzman's constant
 $1.380622 * 10^{-23}$ J/K

h
Planck's constant
 $6.626176 * 10^{-34}$ J*s

R

Ideal Gas Constant
8.31441 J/K*mol

N
Avogadro's number

$6.022045 * 10^{23}$ molecules/mol

e-
charge of an electron
 $1.602189 * 10^{-19}$ C

m_e
mass of an electron
9.110e-31 kg

m_n
mass of a neutron

1.675e-27 kg

m_p
mass of a proton

1.673e-27 kg

atm
1 atmosphere of pressure
1.01325e5 Pa

eV
1 electron Volt of energy
1.602e-19 J

amu
1 atomic mass unit
1.661e-27 kg

mc²
energy equivalent of 1 amu
0.511 MeV

V
volume of ideal gas

22.4 liter/mol

F
Faraday's Constant
96487

kpm

9.80665 J

kWh

$3.6 * 10^6$ J

kcal

$4.1868 * 10^3$ J

PS

735.49875 W

W

$1.360 * 10^{-3}$ PS

at

980,665 mbar

Torr

1.333 mbar

yard

0.91444 m

foot

0.3048 m

in

2.54 cm

gal

4.546 Liter

sm

1852 m

kn

0.5144 m/s

oz

28.35 g

lb

453.6 g

pt

568.25 ml

Application Info - puts into the clipboard the path to the frontmost application and the time elapsed since it was launched. This value is not pasted automatically.

Screen Saver - is based on a very old code to compute an Icosahedron. I made it grayscale and changed it to compute the shades and views in realtime, instead of a much faster offscreen copy.

Speak Text - uses the new speech manager to speak text in the clipboard.