#### **NAME**

a64l, 164a - convert between long and base-64

### **SYNOPSIS**

### DESCRIPTION

These functions provide a conversion between 32-bit long integers and little-endian base-64 ASCII strings (of length zero to six). If the string used as argument for **a64l**() has length greater than six, only the first six bytes are used. If the type *long* has more than 32 bits, then **l64a**() uses only the low order 32 bits of *value*, and **a64l**() sign-extends its 32-bit result.

The 64 digits in the base-64 system are:

```
'.' represents a 0
'/' represents a 1
0-9 represent 2-11
A-Z represent 12-37
a-z represent 38-63
```

So  $123 = 59*64^0 + 1*64^1 = "v/"$ .

### **ATTRIBUTES**

For an explanation of the terms used in this section, see **attributes**(7).

Interface	Attribute	Value
l64a()	Thread safety	MT-Unsafe race:164a
a64l()	Thread safety	MT-Safe

### **CONFORMING TO**

POSIX.1-2001, POSIX.1-2008.

# **NOTES**

The value returned by **164a**() may be a pointer to a static buffer, possibly overwritten by later calls.

The behavior of **164a**() is undefined when *value* is negative. If *value* is zero, it returns an empty string.

These functions are broken in glibc before 2.2.5 (puts most significant digit first).

This is not the encoding used by **uuencode**(1).

### **SEE ALSO**

uuencode(1), strtoul(3)

## **COLOPHON**

This page is part of release 5.02 of the Linux *man-pages* project. A description of the project, information about reporting bugs, and the latest version of this page, can be found at https://www.kernel.org/doc/man-pages/.