

**NAME**

ddspout – put a character on display data set

**SYNOPSIS**

(file descriptor in r0)

jsr pc,ddsinit

(character in r0)

jsr pc,ddspout

**DESCRIPTION**

These routines used to provide an interface to the Display Data Set, a peculiar device which can be called by Picturephone sets and which will display some of the ASCII character set and certain other graphics on the Picturephone screen.

If the DC11 or other interface hardware is not already set up to talk to the Display Data Set, the entry should be called with the appropriate file descriptor in r0. On the only known DDS attached to UNIX, the associated special file is called **/dev/ttyc**.

*ddsinit* also clears the display. Thereafter, characters may be displayed by calling *ddspout*. To the extent possible, *ddspout* simulates an ordinary terminal. Characters falling to the right of the 22x22 screen area are ignored; the 23rd line on the screen causes the screen to be erased and that line to be put at the top of the new display. Certain ASCII characters are interpreted specially as follows:

- FFclear screen, go to top left
- HTextend to right number of spaces
- DC1treat as reverse line feed (move N)
- DC2move cursor 1 place right (move E)
- DC3forward line feed (move S)
- DC4backspace 1 position (move W)
- SOenter graph mode
- SI leave graph mode
- CRput cursor at start of current line

Graph mode allows display of the non-ASCII characters and will be described when hell freezes over.

Lower-case ASCII alphabetic characters are mapped into upper case. Several ASCII non-alphabetic graphics are unavailable as well. Also the lower right circle of the "%" character is missing. Also one of the circuit cards in the DDS has a crack in it and sometimes it doesn't work. All in all, it is best to avoid this device.

**FILES**

kept in /lib/liba.a

**SEE ALSO**

AT&T writeup on DDS BUGSyes