MULTICS SYSTEM PROGRAMMERS * MANUAL

SECTION BF.10.02 PAGE 1

Published: 12/06/68

Identification

punch7: A Spliceable Outer Module to convert linear binary data into 7-punch card images J. F. Ossanna

Purpose

This section describes a spliceable I/O-System outer module which converts linear binary data into 7-punch card images. The card image format is the CTSS 7-punch format.

<u>Usage</u>

The segment <u>punch7</u> uses the standard I/O-System outer calls <u>attach</u>, <u>detach</u>, and <u>write</u> (see Sections BF.1.00 for explanations and declarations). The user must first attach some 7-punch sink such as the card-punch DIM or a file. Then <u>punch7</u> is attached by the following call.

call attach(ioname1, "punch7", ioname2, mode, status);

<u>ioname1</u> is the ioname on which <u>write</u> calls to <u>punch7</u> are to be issued. The <u>type</u> is "punch7". <u>ioname2</u> is the ioname that <u>punch7</u> is to write onto. <u>mode</u> is ignored. <u>status</u> is described in BF.1.07. At attach time <u>punch7</u> issues a <u>setsize</u> call on <u>ioname2</u> to set the element size to 972 bits (each card image occupies 26 2/3 words out of 27 words).

The following call is made to write an entire 7-punch deck.

call write(ioname1, wksp, offset, n, nt, status);

<u>wksp</u> is a pointer to the caller's workspace. <u>offset</u> is an offset in 36-bit elements (words) in the workspace and indicates where in the workspace the linear binary data is to be obtained. <u>n</u> is the maximum number of elements (words) that <u>punch7</u> will attempt to transmit. <u>nt</u> is returned and is the actual number transmitted. See BF.1.07 for a description of <u>status</u>. Upon receipt of a <u>write</u> call <u>punch7</u> will write 7-punch card images onto <u>ioname2</u> until <u>n</u> elements have been converted, or until fatal error status is returned by the 7-punch sink. In case of error the status returned by the 7-punch source is returned as <u>status</u>. If any valid data was transmitted prior to detecting an error, the proper count is returned in <u>nt</u>.