

Published: 12/06/68

Identification

card,punch: A Spliceable Outer Module to convert between Multics key-punch-code card images and ascii character strings

J. F. Ossanna

(Note that this is an Abstract which will be replaced at a later time by a complete document.)

Function:

The segment card (synonym punch) can be spliced between a user and a Multics card source/sink and used to write/read Multics cards. The key punch code implemented is that described in section BB.3.02. The code conversion table is that in the externally referenced segment cpseq. It also has entry points intended for use as a conversion subroutine.

Calling sequence:

The standard I/O-System outer calls attach, detach, read, write, setsize, and getsize are implemented; see Section BF.1.00 for explanations and declarations. For subroutine use the following calls are implemented.

```
call card$c12_9(inptr, outptr, n);
```

```
call punch$c9_12(inptr, outptr, n);
```

Declaration and description of arguments:

```
declare
    inptr ptr,          /*pointer to data to be converted*/
    outptr ptr,        /*pointer to where converted data
                        goes*/
    n fixed;           /*number of characters or columns
                        to be converted*/
```

In the case of card-column to character conversion, inptr points to the first of n packed 12-bit strings representing the card columns, and outptr points to a character string where the characters are to go. In the case of character to card-column conversion, inptr points to the character string and outptr points to the packed 12-bit column representations. In all cases the data must be left adjusted on a word boundary.