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Identification

Symbolic reference to unavailable graphic character constants upper_case_char, punctuation_char. Charles Garman

Purpose

This section describes two library data segments, upper_case_char and punctuation_char, for symbolic reference to graphic characters currently unavailable in character-string constants; it is to be withdrawn when all ASCII graphics are available in EPL, or when full PL/I arrives.

Background

Although the <u>data</u> character set for EPL is full 7-bit ASCII, at this writing the 26 upper-case alphabetic graphics and 12 of the punctuation-type graphics may not appear in EPL character-string literals. Specifically the upper-case alphabet maps into its lower-case counterpart, while the 12 non-language-character-set graphics map into the percent sign (%, octal 045). Until this situation is changed, either with later versions of EPL or the appearance of full PL/I, these graphics will be available symbolically in a similar manner to those in the data segment ctl_char (BY.8.01).

<u>Usaqe</u>

For each character which a program wishes to reference, the following declaration would appear

dcl upper_case_char\$lower_case_graphic char(1) ext;

or

dcl punctuation_char\$character_name char(1) ext;

For the upper-case characters, lower_case_graphic is simply the single lower-case counterpart of the desired character, e.g. "a". For punctuation characters, the graphics, names, and octal values are given below. MULTICS SYSTEM-PROGRAMMERS' MANUAL

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Graphic	Name	Octal Value
! # % ; ; ;	exclamation_point number_sign percent acute_accent commercial_at open_bracket left_slant close_bracket grave_accent open_brace close_brace tilde	04 1 04 3 04 5 04 7 100 1 3 3 1 34 1 35 1 40 1 7 3 1 7 5 1 7 6
~	tilde	1/6

Implementation

These segments are created in essentially similar fashion as ctl_char (BY.8.01).