

Subject: MCR10121: Change hcs_.info to document hcs_\$status_
 Author: Gary Dixon
 Date: 2022-08-27
 Ticket: <https://multics-trac.swenson.org/ticket/288#ticket>

For many years, hcs_.info has been missing documentation for the popular hcs_\$status_ subroutine entry point. That entry point has always been documented in the MPM Subroutines manual (AG93).

This MCR proposes to document the existing subroutine in a new :Entry: block of hcs_.info and to correct other issues reported by verify_info for that info segment.

Proposed Changes

The following outputs summarize details of the proposed change.

pr *.mb

```
hi.mb      08/26/22  2341.2 pdt Fri
```

Description:

Fix Ticket 288 to supply missing entrypoint doc in hcs_.info.

Installation_directory: >udd>m>gd>w>hi;

Build_script: hi.mb;

Info: hcs_.info IN: sss.info REPLACE;
 r 23:41 0.193 0

history_comment display hcs_.info -orig >doc>info>== new

>udd>m>gd>w>hcs_info>hcs_.info:

1) change(2022-08-26,GDixon):

A) Add documentation for hcs_\$status_ (omitted from earlier hcs_.info versions).

B) Correct description of hcs_\$status_long status_ptr argument.

C) Correct errors found by verify_info command.

r 23:41 0.261 5

Testing

No code is changing; only hcs_.info.

Documentation

Most significant changes to hcs_.info content are shown below. Syntax and Arguments sections of hcs_\$status_ were copied from hcs_\$status_long. That entry point has the same calling sequence and arguments. It just provided additional output data.

Description of the status_ptr argument of hcs_\$status_long was wrong. Information about which structure in status_structures.incl.pl1 were used by that entry point appeared in description of the status_area_ptr argument, rather than in the status_ptr argument. That issue was corrected in both hcs_\$status_ and hcs_\$status_long info blocks.

mbuild: cmp

----- hcs_.info

compare_ascii >doc>info>hcs_.info ==

A1 09/20/87 hcs_

Changed by B to:

B1 :Info: hcs_: 2022-08-26 hcs_

A7 Entry points in hcs_:

A8 (List is generated by the help command)

A9

A10

A11 :Entry: add_acl_entries: 05/12/82 hcs_\$add_acl_entries

Changed by B to:

B7 :Entry: add_acl_entries: 1982-05-12 hcs_\$add_acl_entries

...

A1904 declare hcs_\$get_user_access_modes_ptr entry (pointer, fixed bin, bit (36)

A1905 aligned, bit (36) aligned, fixed bin (35));

A1906 call hcs_\$get_user_access_modes_ptr (segment_ptr, user_id, ring, mode,

Changed by B to:

B1900 declare hcs_\$get_user_access_modes entry (pointer, fixed bin,

B1901 bit (36) aligned, bit (36) aligned, fixed bin (35));

B1902 call hcs_\$get_user_access_modes (segment_ptr, user_id, ring, mode,

...

A3951 :Entry: status_long: 05/12/82 hcs_\$status_long

Changed by B to:

B3951 :Entry: status_: 2022-08-26 hcs_\$status_

B3952

B3953

B3954 Function: returns the most often needed information about a specified

B3955 directory entry. Other entry points (hcs_\$status_long,

B3956 hcs_\$status_minf, hcs_\$status_mins) return more or less detailed

B3957 information, and should be selected as the user requires.

B3958

B3959

B3960 Syntax:

B3961 declare hcs_\$status_ entry (char(*), char(*), fixed bin(1), ptr, ptr,

B3962 fixed bin(35));

B3963 call hcs_\$status_ (dir_name, entryname, chase_sw, status_ptr,

B3964 status_area_ptr, code);

B3965

B3966

B3967 Arguments:
 B3968 dir_name
 B3969 is the pathname of the containing directory. (Input)
 B3970 entryname
 B3971 is the entryname of the segment, directory, or link. (Input)
 B3972 chase_sw
 B3973 indicates whether the information returned is about a link or about
 B3974 the entry to which the link points. (Input)
 B3975 0 returns link information
 B3976 1 returns information about the entry to which the link points
 B3977
 B3978
 B3979 status_ptr
 B3980 is a pointer to the structure in which information is returned.
 B3981 (Input) If the entry is a link, it points to the status_link
 B3982 structure. If the entry is a segment, directory, or multisegment
 B3983 file, it points to the status_branch structure. Both are defined
 B3984 in status_structures.incl.pl1.
 B3985 status_area_ptr
 B3986 is a pointer to the area in which names are returned. (Input) If
 B3987 the pointer is null, no names are returned.
 B3988 code
 B3989 is a storage system status code. (Output)
 B3990
 B3991
 B3992 Access required:
 B3993 The user must have either status permission on the containing directory
 B3994 or nonnull access to the object to obtain complete information.
 B3995 Entrynames, however, are not returned unless the user has status
 B3996 permission on the containing directory.
 B3997
 B3998
 B3999 Notes: For compatability with older programs, if entryname is given as
 B4000 a null string, status is returned on the directory given as dir_name.
 B4001
 B4002
 B4003 :Entry: status_long: 2022-08-26 hcs_\$status_long

 A3979 (Input)
 A3980 status_area_ptr
 A3981 is a pointer to the area in which names are returned. (Input) If
 A3982 the pointer is null, no names are returned. If the entry is a link,
 A3983 it points to the status_link structure. If the entry is a segment,
 A3984 directory, or multisegment file, it points to the status_branch
 A3985 structure. Both are defined in status_structures.incl.pl1.
 Changed by B to:
 B4031 (Input) If the entry is a link, it points to the status_link
 B4032 structure. If the entry is a segment, directory, or multisegment
 B4033 file, it points to the status_branch structure. Both are defined
 B4034 in status_structures.incl.pl1.
 B4035 status_area_ptr
 B4036 is a pointer to the area in which names are returned. (Input) If
 B4037 the pointer is null, no names are returned.

...

Version History

Date	Revision	Author	Comment
2022-08-27	1.0	Gary Dixon	Initial version of MCR.