

Identification

The Traffic Controller Data Block

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Purpose

The Traffic Controller Data Block (TCDB) is a collection of miscellaneous items in segment <tc_data>; some of those items are internal to the Traffic Controller, others are of general interest. This section lists all these items and explains their function. No table-declaration is furnished as this is a pre-assembled table and the items are independent of one another; rather, the EPL attributes of each of these items are stated separately.

Itemization

Following are the TCDB items listed by their symbols; to access any of them, say apt_lock, reference should be made to <tc_data>[apt_lock];

"internal" means internal to the Traffic Controller.

apt_lock	<i>global</i> lock word used to restrict access into the traffic controller	
aet_lock	the AET is the only table that is sometimes accessed without using the global traffic controller interlock; the AET lock is then used	
apt_ptr	pointer to the base of the APT (ptr)	internal
apt_size	number of words in the APT (fixed)	internal
aet_ptr	pointer to the base of the AET (ptr)	internal
aet_size	number of words in the AET (fixed)	internal
aht_ptr	pointer to the base of APTHSH (ptr)	internal
aht_size	number of words in the APTHSH	internal
act_tbl_ptr	pointer to the base of the Activator Table	internal
act_tbl_size	number of words in the Activator Table (fixed)	internal
lowest_level	is the lowest-priority (highest- value ^{numbered}) level number in the ready-list; it is assigned to the idle processes exclusively. (fixed)	

	<i>Number of</i>	
lowest_loaded	<i>lowest-priority</i>	<i>ready-list queue</i>
nloaded		
nloaded_ready		
max_loaded		
loaded_depth		
nprocessors		
mini_time		
activation_level		
wait_enable		
loader_daemon_sw		
loader		
loader_id		
initializer_id		

(the term "sentinel" used below is explained in BJ.1.2)

