

---

**Rule CIC193:** The IMS ENQPL storage pool specification may be too low

---

**Finding:** CPExpert believes that the ENQPL specification in the System Initialization Table (SIT) may be too low.

**Impact:** This finding should normally have a MEDIUM IMPACT or HIGH IMPACT on the performance of the CICS region.

**Logic flow:** This is a basic finding, based upon an analysis of the CICS statistics.

**Discussion:** The ENQPL operand in the SIT specifies the number of blocks in the IMS enqueue control block pool. The enqueue control block pool is used only if program-isolation scheduling is being used. If the ENQPL value is too small, the IMS/VS DB task abends with a U0775 pseudoabend message, causing dynamic backout of the changes.

As mentioned above, the ENQPL operand is used only with program-isolation scheduling. With CICS and IMS in a data-sharing environment, the Internal Resource Lock Manager (IRLM)<sup>1</sup> replaces the program isolation function. Consequently, it is not necessary to specify the ENQPL operand for the CICS region if IRLM is present.

CPExpert produces Rule CIC193 if the percent of the ENQ control block pool used was greater than the ENQPOOL guidance variable in CPEXPRT.USOURCE(CICGUIDE). The default for the ENQPL guidance variable is 75, indicating that Rule CIC193 will be produced when more than 75% of the ENQ control block pool is used.

The purpose of Rule CIC193 is to give an "early warning" of a potential problem. Obviously, if the IMS/VS DB task abends, action would be taken to increase the ENQPL value. Rule CIC193 is present to give an advance warning that such abends may occur with the present setting of the ENQPL operand.

**Suggestion:** CPExpert suggests that you increase the value of the ENQPL operand in the SIT to minimize the possibility of running out of enqueue pool space.

---

<sup>1</sup>Also known as the IMS Resource Lock Manager, IMS/VS Resource Lock Manager, or Inter-Region Lock Manager depending on the IBM document you reference.

---

With IMS 2.2, IMS acquires the enqueue pool above the 16megabyte line (the CICS 2.1.2 Performance Guide erroneously states that it still is acquired from OSCOR).

IMS uses only what is required during operation, rather than what is specified in the SIT. Consequently, there is little danger of specifying a very large value for the ENQPL operand (maximum value is 999, representing 999K of storage).

Alternatively, you should verify that batch IMS programs are issuing regular checkpoints (CHKPT) If the batch programs are not issuing regular checkpoints, they should be modified to issue them.

Alternatively, if you feel that this rule is produced prematurely, increase the value of the ENQPL guidance variable.

**Reference:** *CICS/OS/VS Version 1.7 Performance Guide*: page 69 and pages 257-258.

*CICS/MVS Version 2.1.2 Performance Guide*: pages 182-183 and pages 398-399.

*CICS/ESA Version 3.1.1 Performance Guide*: pages 55-60 and pages 250-252.

*CICS/ESA Version 3.2.1 Performance Guide*: pages 172-174 and pages 276-280.

*CICS/ESA Version 3.3.1 Performance Guide*: pages 182-184 and pages 296-299.

*CICS/ESA Version 4.1.1 Performance Guide*: Section 4.5.5 and Appendix A.1.5.

CICS/TS: not applicable.

CICS/TS for z/OS: not applicable.

IMS/VS V.2 Installation Notebook, G320-9541-01

IBMLINK Document Source: ELSSECVM02FS  
TITLE: CICS-DL/I use of CSA