
Rule CIC275: CICS-DB2 TCBs in use is approaching TCBLIMIT

Finding: The peak number of Task Control Blocks (TCBs) in use for the CICS-DB2 connection is approaching the limit set by the TCBLIMIT parameter.

Impact: This finding should normally have a MEDIUM IMPACT or HIGH IMPACT on the performance of CICS tasks in the region that use the CICS-DB2 connection.

Logic flow: This is a basic finding, based upon an analysis of the CICS statistics. This finding applies only with CICS/Transaction Server for OS/390 Release 1.2 and subsequent releases of CICS.

Discussion: This rule was added to CPExpert Release 13.1 in April 2003 at the request of **Rex Avendano** (Kaiser Permanente), and Release 13.1 was issued at the end of April. The work involved with issuing Release 13.1 precluded any comprehensive research into the finding. Consequently, while the rule is produced by CPExpert code, no discussion of the implications or suggestions for alternative actions have been provided. This missing documentation will be produced immediately after Release 13.1 has been issued; I will have the documentation ready by mid-May. If any user has Rule CIC275 produced, please contact Don_Deese@cpexpert.com and I will send the new documentation to you.

CICS-DB2 global statistics are available in MXG file CICDB2GL. CPExpert uses data in CICDB2GL to calculate the percent of TCBs in use relative to the TCB Limit, using the following algorithm:

$$\text{Percent TCBs in use} = \frac{\text{Peak TCBs in use}}{\text{TCB Limit}}$$

where

Peak TCBs in use = D2GTCBPK
TCB Limit = D2GTCBLM

CPExpert produces Rule CIC275 when the percent peak TCBs in use is more than the value specified by the **PCTD2TCB** guidance variable in USOURCE(CICGUIDE). The default value for the **PCTD2TCB** is 80 indicating that CPExpert should produce Rule CIC275 whenever the peak TCBs in use was more than 80% of the TCB limit specified for the CICS-DB2 Connection.

Suggestion: Suggestions will be available upon request, in May 2003 when this document is revised.

Reference: References will be available upon request, in May 2003 when this document is revised.

Thanks: Thanks to **Rex Avendano** (Kaiser Permanente) for suggesting this rule.