IBM Education Assistance for z/OS V2R1

Item: Offload Time at Task Level
Element/Component: BCP Supervisor

Agenda

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Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.

Presentation Objectives

Describe changes made in OA38409 on z/OS 1.13 (and included within z/OS 2.1) for TIMEUSED to accommodate CICS' and DB2's needs for offload time at a task level

Overview

- Problems
    - (CICS) CPU time on offload engines and/or time while offload-eligible on a standard CP was not available to unauthorized applications at a task level.
    - (DB2) Offload-eligible time on a standard CPU was not available via their authorized interface.

- Solutions
    - Provide TIMEUSED variants

- Benefit/Value
    - (CICS) allow for better management of transaction offload times at a transaction level
    - (DB2) accommodate better metrics

Usage & Invocation (Offload time for unauthorized)

- When bit CVTECT1 is on (R13's OA38409, or z/OS 2.1), TIMEUSED ECT=YES (requires the Extract CPU Time facility) allows one or more of
  - TIME_ON_CP=YES
  - OFFLOAD_TIME=YES
  - OFFLOAD_ON_CP=YES (this is offload-eligible time)

- The requested time(s) along with the "total" time are returned in an area provided by the caller.

Usage & Invocation (Offload time on CP)

- When bit CVTOOCP is on (R13's OA38409 or z/OS 2.1), TIMEUSED TIME_ON_CP=YES without ECT=YES allows the use of OFFLOAD_ON_CP=YES

- In addition to total time and time_on_CP, when this is requested, offload-eligible time on standard CP is also returned.

Interactions & Dependencies

- **Software Dependencies**
  - OA38409 on z/OS 1.13 (and included within z/OS 2.1)

- **Hardware Dependencies**
  - None

- **Exploiters**
  - CICS and DB2

Migration & Coexistence Considerations

- Avoid using the new variants unless the appropriate "feature bit" in the CVT is on. If you know you are running with z/OS 2.1 functions, you may assume that the bit is on.

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Appendix

- Publications:
  - MVS Assembler Services Reference (TIMEUSED)
    SA23-1370-00