z/OS V1R13

BCP GRS: New ISGQUERY request types

Overview

- Problem statement / need addressed
  - There was no programmatic interface to enhanced contention analysis for latches
  - There was no programmatic interface to gather overall GRS statistics
- Solution
  - GRS is providing two new request types in its ISGQUERY service
- Benefit / value
  - With exploitation in other products, this simplifies latch contention diagnosis as well as overall GRS usage monitoring

Usage and invocation (1 of 2)

- ISGQUERY REQINFO=LATCHECA
        ANALYZE=WAITER
        ANSAREA=xansarea
        ANSLEN=xanslen
- Provides comparable functionality to "d GRS,ANALYZE,WAITER"
  - Exploited by RTD
  - BLOCKER & DEPENDENCY not available at this time
- ISGYQUAC replaces ISGYQUAA
  - Due to upward compatibility issue
  - ISGYQUAALd and ISGYQUAALrd data structures added
  - All future ISGQUERY enhancements will use ISGYQUAC
  - Existing ISGQUERY invocations unaffected
- ISGQUERY REQINFO=USAGESTATS
  ANSAREA=xansarea
  ANSLEN=xanslen
- Provides overall statistics on GRS activity
  - Exploited by RMF
  - Usage statistics for ENQ, qscan, and latches for each address space
  - Aggregated statistics also provided for terminated address spaces
- ISGYQUAC used for this functionality as well
  - ISGYQUAAHdrUs is slightly different than other qscan headers
  - ISGYQUAAUs used for each address space's data

Interactions and dependencies

- None

Migration and coexistence considerations

- None

Installation

- None

Appendix - References

- z/OS V1R13.0 MVS planning: Global resource serialization
  - Document number SA22-7600-xx
- z/OS V1R13.0 MVS assembler services reference IAR-XCT
  - Document number SA22-7607-xx