Additional Return_Control Values

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J. E. Fetvedt

fetvedt@vnet.ibm.com

tie-line 919-254-4366

Application Enablement Architecture
Dept. C74 / Bldg. 664-3
P. O. Box 12195
Research Triangle Park, NC 27709

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Additional Return_Control Values

Requirements

1. Add new values to the Return_Control conversation characteristic for:

   CM_WHEN_CONWINNER_ALLOCATED - specifies to allocate a contention-winner session for the conversation before returning control to the program.

   CM_WHEN_SESSION_FREE - specifies to allocate a session for the conversation if a session is available. If no session is available, the local program is willing to wait for session activation. If a session cannot be activated and there are no outstanding session activation requests to satisfy this Allocate, then control returns to the program with a return code of CM_ALLOCATE_FAILURE_RETRY.

Status

AD/AP status granted at 10/94 CIW.

CP status granted at 5/95/CIW.

Specific Changes

1. section 4.7.2, Allocate (CMALLC), Parameters:

   a. Add CM_WHEN_CONWINNER_ALLOCATED and CM_WHEN_SESSION_FREE to the return_control values that can receive CM_ALLOCATE_FAILURE_NO_RETRY and CM_ALLOCATE_FAILURE_RETRY.

2. section 4.69.2, Set_Return_Control (CMSRC), Parameters:

   a. Add descriptions for CM_WHEN_CONWINNER_ALLOCATED and CM_WHEN_SESSION_FREE to the return_control parameter:

      "CM_WHEN_CONWINNER_ALLOCATED - Allocate a contention-winner session for the conversation before returning control to the program."

      "CM_WHEN_SESSION_FREE - Allocate a session for the conversation if a session is available. If no session is available, the local program is willing to wait for session activation. If a session cannot be activated and there are no outstanding session activation requests to satisfy this Allocate, then control returns to the program with a return code of CM_ALLOCATE_FAILURE_RETRY."

   b. Add a table showing whether a con-winner is acceptable, a con-loser is acceptable, and if a wait is expected, for each return_control value.

      "The following table contrasts all of the above ***return_control*** options.

Table 1. Return control options			
return_control value	**Con-winner acceptable**	**Con-loser acceptable**	**Wait expected**
CM_WHEN_SESSION_ALLOCATED	Yes	Yes	Yes, indefinitely
CM_WHEN_CONWINNER_ALLOCATED	Yes	No	Yes, indefinitely
CM_WHEN_SESSION_FREE	Yes	Yes	Yes, while there are out-standing session activation requests
CM_IMMEDIATE	Yes	No	No

3. appendix A.1, return_control values:

   a. Add values for CM_WHEN_CONWINNER_ALLOCATED and CM_WHEN_SESSION_FREE.

      "CM_WHEN_CONWINNER_ALLOCATED 2"
      "CM_WHEN_SESSION_FREE 3"

4. appendix E:

   Add values for CM_WHEN_CONWINNER_ALLOCATED and CM_WHEN_SESSION_FREE to each of the pseudonym files.:

   a. Application Generator:

      "MOVE 2 TO CM_WHEN_CONWINNER_ALLOCATED"
      "MOVE 3 TO CM_WHEN_SESSION_FREE"
      ":recditem name = CM_WHEN_CONWINNER_ALLOCATED
      level = 1 occurs = 1
      scope = GLOBAL"
      ":recditem name = CM_WHEN_SESSION_FREE
      level = 1 occurs = 1
      scope = GLOBAL"
      ":item name = CM_WHEN_CONWINNER_ALLOCATED
      date = ' 3/ 3/95' time = '12: : ' type = BIN
      bytes = 4 decimals = evensql = N
      :eitem."
      ":item name = CM_WHEN_SESSION_FREE
      date = ' 3/ 3/95' time = '12: : ' type = BIN
      bytes = 4 decimals = evensql = N
      :eitem."

   b. C

      "#define CM_WHEN_CONWINNER_ALLOCATED (CM_RETURN_CONTROL) 2"
      "#define CM_WHEN_SESSION_FREE (CM_RETURN_CONTROL) 3"

   c. COBOL

      " 88 CM_WHEN_CONWINNER_ALLOCATED VALUE 2."
      " 88 CM_WHEN_SESSION_FREE VALUE 3."

   d. FORTRAN

      "INTEGER CM_WHEN_CONWINNER_ALLOCATED /2/"
      "INTEGER CM_WHEN_SESSION_FREE /3/"
      "INTEGER CONALL /2/"
      "INTEGER SESFRE /3/"

e. PL/I

```
"cm_when_conwinner_allocated          INITIAL(2)"
"cm_when_session_free                 INITIAL(3)"
```

f. REXX

```
"CM_WHEN_CONWINNER_ALLOCATED          = 2"
"CM_WHEN_SESSION_FREE                 = 3"
```

g. RPG

```
"I     CM_WHEN_CONWINNER_ALLOCATED        -- VALUE 2     (CONALL)"
"I     CM_WHEN_SESSION_FREE               -- VALUE 3     (SESFRE)"
"              2                    C          CONALL"
"              3                    C          SESFRE"
```

5. appendix F:

a. Add new values into Table 81 under return control:

```
"cm_when_conwinner_allocated          conversations"
"cm_when_session_free                 conversations"
```