

Session Monitoring

The Session Monitoring function can be used to obtain information and statistics on all applications being managed by the Adabas System Coordinator.

- Session Monitoring Menu
- Change Information Source
- Display Daemon Group Members
- Display Active Jobs
- Display User Information
- Display General Statistics
- Display Network Information

Session Monitoring Menu

▶ To display the Session Monitoring menu

- Select service 2 from the main menu.

```

17:57:50          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Session Monitoring -                                     C12000M1

Runmode: Local                                         Session: Local

                Code      Service
                ----      -
                0      Change Information Source
                1      Daemon Group Members
                2      Adabas Client Jobs
                3      Memory Pool Statistics
                4      General Statistics
                5      Network Display
                .      Exit
                ----      -
                Code .. _

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit                                         Menu

```

From this menu, you can	Service	Cmd
change the information source to be used	0	2.0
display daemon group members	1	2.1
display active jobs	2	2.2
display memory pool statistics	3	2.3
display general statistics	4	2.4
display network information	5	2.5

All session monitoring requests will be directed to the current information source as displayed in the Session field at the top of the screen. By default this will be either your local client session when you are running in Local (non-daemon) mode. If you are running in daemon mode, monitoring requests will be directed to your coordinator daemon.

Change Information Source

This option can be used to route monitoring requests to any active coordinator daemon (see screen below).

▶ To access the Change Information Source screen from the Session Monitoring menu

- Select service 0 or enter the command 0 . 1 on a command line.

```

18:17:06          Change Current Information Source          2002-09-09
                                                           C12000M2

You may change the Daemon being used for monitoring
  (as shown by the Session field).

Enter the required Daemon node id: 0

Or 0 to return to your default
Or press PF3 to leave it unchanged

Command ==>
                PF3 Exit

```

Display Daemon Group Members

▶ To display the daemon group members screen from the Session Monitoring menu

1. Select service 1 or enter the command 2 . 1 on a command line.

```

11:50:41          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Display Daemon Group Members -                               C12100M1

Coordinator Name      Node   System      Start Time          <-----Cluster Moves----->
                    (HH:MM:SS)   Users      Total      Ave.Size
SYSCO33              33     ABCD        11:40.36           3           0           0
SYSCO34              34     EFGH        11:40.46           0           0           0

End of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit  Refr                               Menu
    
```

The screen shows the daemons that are active in the coordinator group. A coordinator daemon node must be specified for this option because node information is kept in the daemon, not in the local client.

The following information is provided:

Field	Description
Coordinator Name	The name and job number of the coordinator daemon task.
Node	The Adabas Node ID of the coordinator daemon.
System	The operating system ID.
Start Time	The start time of the coordinator daemon.
Users	The number of users currently managed by this coordinator daemon.
Cluster Moves	The number of client sessions that have been routed dynamically to this system, and the average session message size per move. This field is only relevant for clustered applications in a multisystem environment.

Display Active Jobs

 To display the Active Jobs screen from the Session Monitoring menu

- Select service 2 or enter the command 2 . 2 on a command line.

```

18:25:36          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                  - Display Active Jobs -                                     C12200M1

Runmode: Local                                           Session: Daemon / 36

C Service      Job Name      Job Num.      Appl.ID      Start Time      Maximum
_ CICSPOOL     CICSPO01     C12218       CICSAP1     (HH:MM.SS)     Users Concurrent
_ CICSPOOL     CICSPO02     C12219       CICSAP2     11:40:36       23           1
               11:42:45       23           1

Mark with D(etail),S(nap),M(emory Pools),U(sers)
End of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help           Exit  Refr                                     Menu
    
```

This screen shows the TP monitors and other tasks that are currently active and managed by Adabas System Coordinator. The following fields are displayed:

Field	Description
C	This field can be used to display additional information: <ul style="list-style-type: none"> ● M: display memory pools ● U: display user information
Service	The clustered application service name (if any) used by this job.
Job ... Appl. ID	The job name, job number, and Application ID
Start Time	The start time of the job.
Users	The number of user sessions active in the job.
Maximum Concurrent	The number of concurrent threads active. This is a measure of the highest level of concurrent Adabas command throughput..

Display Memory Pools

Selecting Memory Pool Statistics results in the following screen being displayed:

```

12:06:17          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                   - Display Memory Pool Information -                               C12400M1

      Pool      Free      Free
C Node Job Name Pool Name Extents Size(k) Memory (k) Elements Type
-   36 CICSP001 F7408320    0    256    251.5      32      O
-   36 CICSP002 F7408320    0    256    251.5      32      P
-   36 CICSP001 PRIVATE      0    256    209.6      10      O
-   36 CICSP002 PRIVATE      0    256    209.6      10      P
-   36 CICSP001 PRODCICS  0     50     47.1       1      O
-   36 CICSP001 PRODCICS  0     50     47.1       1      P

Mark with D(etail), S(nap)
End of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help           Exit Refr                               Menu
    
```

This screen shows the memory pools that are used by jobs. The following information is provided:

Field	Description
Pool Name	The PRIVATE pool is allocated in the job's private memory. Shared memory pools are always managed by a coordinator daemon. Fixed pools are named Fvrnnnnn where vr is the product version and revision level and nnnnn is the pool element size.
Extents	The number of extents. Performance may be improved by tuning job parameters to eliminate extents.
Free Memory	The amount of free memory available in all extents in the pool.
Free Elements	The number of free elements in the pool.
Type	Pool type. O: The job created and owns the pool P: The job has joined a pool that was created by a previous job

Display User Information

See next section Display User Information.

Display User Information

Selecting Display User Information results in the following screen being displayed:

```

12:06:17          ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****          2002-09-09
                    - Display User Information -                               C12230M1

Runmode      : Local                               Session: Daemon / 36
Select Users: _____

C Service  Job Name  User ID  Txn      Dormant      Memory(k)  Adabas      Quick
           _ CICSP001  CICSTC01 N315      (HHH:MM.SS) Allocated  Ccmds      Locates  Typ
           _           CICSTCD4 N315      0:00.09      0.3         009        003      S
           _           CICSTC03 N315      0:00.01      2.0         308        255      S
           _           CICSTC04 N315      0:00.33      0.3         367        315      S
           _           CICSTC04 N315      0:00.01      19.6        4097       1211     S
           _           CICSTC05 *timeout  3:14.18      0.3         57         41       S
           _           CICSTC06 N315      0:00.09      0.3         57         41       S

Mark with D(etail),S(nap),P(urge)
Top of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit  Refr SortN      SortT SortU SortO Menu

```

This screen shows the users that are active in a job managed by the Adabas System Coordinator. The following information is provided:

Field	Description
User ID	The User ID (last 8 characters only). IDs comprised of special characters are normally generated by the system.
Txn	The current or last Transaction ID executed (TP systems only). The value '*timeout' indicates that the inactivity threshold has been reached for this client session.
Dormant	The amount of time since the last user activity.
Memory	The amount of memory allocated by the user.
Adabas Ccmds	The number of Adabas commands executed for this user.
Quick Locate	The number of times the coordinator optimized command processing because two or more commands for the same user were executed consecutively.
Type	Indicates whether or not the user is managed by an Adabas System Coordinator daemon. A value of 'S' indicates that the user is managed by a Adabas System Coordinator daemon.

PF keys can be used to sort the user list in various sequences:

Key	Description
PF5 (SortN)	The list is sorted by User ID.
PF9 (SortT)	The list is sorted in descending time since the user was last active.
PF10 (SortU)	The list is sorted in descending order of the number of Adabas calls issued.
PF11 (SortO)	The list is sorted in descending order of user search optimization. This shows the number of times for each user that an index search was avoided.

Display General Statistics

▶ To display the General (Cache) Statistics screen from the Session Monitoring menu

1. Select service 4 or enter the command 4 . 1 on a command line.

```

11:50:41      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
                  - Display Cache Statistics - Summary -                      C12500M1

Node ID: 36

Detail                                     Detail
Page                                       Page

  1 CSCSREADHITC.....: 2                               4 CSCSXINMINVALC.....: 0
. CSCSRMDIRHITC.....: 2                               . CSCSXICMINVALC.....: 0
. CSCSCASTPITCC.....: 2                               5 CSCSCASTOUTC.....: 0
. CSCSREFSIGMISSC.....: 2                             . CSCSREFSIGMISSC.....: 0
. CSCSTMCFULLCLC.....: 2                             . CSCSTMCFULLC.....: 0
  2 CSCSDIREENTRYC.....: 2                             . CSCSDIREENTRYC.....: 0
. CSCSWRITCB1C.....: 2                               6 CSCSDATAREAELEC.....: 0

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit  Refr                                DetL  DetF  Menu
    
```

This screen displays the IBM sysplex coupling facility cache memory statistics. The definition of each statistical value is provided on a series of detailed screens, together with a repetition of the value.

Use PF11 to display a series of detail screens. Use PF10 to return to the last screen. You can then use the same PF keys to proceed forward or backward to the desired screen.

Cache statistics are valid only if the coordinator group is defined as type “Sysplex”.

Display Network Information

▶ To display the Network screen from the Session Monitoring menu

1. Select service 5 or enter the command 5 . 1 on a command line.

```

11:50:41      ***** A D A B A S SYSTEM COORDINATOR 7.4.2 *****      2002-09-09
              - Network Display -                                     C12600M1

Coordinator Node in view: 36                      Local Coordinator: 36
Coord L Last Update Status

Node R (HH:MM.SS)  Upds  DBID  Nuc ID  Type                A S P F Resp
 36 L  11:40:47    2    37    37    System Coord        A S - -
                180    1801   Ada Cluster(L)      A S P -
                180    1802   Ada Cluster(L)      A S P -
                36     36     System Coord        A S - -
                199    199    Adabas              A - p -
                151    151    Unidentified        A - - F 245
                37     37     System Coord        A S - -
 37 R  11:40:47    1    180   1801   Ada Cluster(L)      A S P -
                180   1802   Ada Cluster(L)      A S P -
                36     36     System Coord        A S - -

End of List

Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help           Exit  Refr                               Prods Menu

```

Each Adabas System Coordinator daemon maintains a list of targets that are or were at one time active. This information is communicated to all daemons in the cluster.

This screen displays the network information of each daemon.