9 software

Adabas Caching Facility

Adabas Caching Online Services

Version 8.2.3

March 2013

Adabas Caching Facility

This document applies to Adabas Caching Facility Version 8.2.3.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Adabas Caching Online Services

Adabas Caching Online Services is used to define caching parameter settings and also to monitor caching operations. It can also be used to issue ADACSH operator commands.

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2 Using Adabas Caching Online Services

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Starting Adabas Caching Online Services

The interactive component that supports Adabas Caching is accessed through the Adabas Online System main menu.

The following screen is displayed when Adabas Caching is not present:

```
**** A D A B A S CACHING FACILITY ****
13:24:45
                                                                2004-05-11
                         - Global Cache Main Menu -
                                                                PCH0002
                                                                No Cache
                     Code Function
                      - - - -
                             D
                             Define RABNs to be Cached

    M Global Cache Maintenance
    O Maintain Cache Spaces
    P Maintain Cache Parameters
    S Cache Session Summary

                       ?
                            Help
                             Exit
                       .
                              Code ..... _
     Cache Space No ..
     DataBase ...... 54 (ADANAT-DB)
MENU001: 05- Nucleus running without adacsh
Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
                                                               Menu
Help
                  Exit
```

Note the MENU001 message in the lower left quadrant and "No Cache" in the upper right hand quadrant of the screen. "No Cache" will be replaced by "Global Cache" or "File Level" once Adabas Caching has been activated.

To start Adabas Caching Online Services, select Caching Facility from either the demo or full version Adabas Online System main menu.

One of two menus will appear, depending on whether the ADARUN parameter CFILE has been specified:

■ If CFILE has *not* been specified, the **Global Cache Main Menu** appears.

If CFILE has been specified, the File Level Main Menu appears.

The memory type depends on the operating system under which Adabas is running. For more information on cache memory types, see section Caching Configuration.

Using PF Keys

PF1 (Help) provides information about the current function, PF3 is Exit and PF12 returns to the main menu.

Other PF keys are used depending on the options activated.

Global Caching

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Global Caching Main Menu

The Global Cache Main Menu is used to select the global caching function to be executed.

```
***** A D A B A S CACHING FACILITY *****
14:43:15
                                                           2004-05-11
                       - Global Cache Main Menu -
                                                           PCH0002
                                                           Global Cache
                   Code
                          Function
                           -----
                   - - - -
                     D
                           Define RABNs to be Cached
                     М
                           Global Cache Maintenance
                     0
                           Maintain Cache Spaces
                     Ρ
                           Maintain Cache Parameters
                     S
                           Cache Session Summary
                     ?
                           Help
                           Exit
                     .
                                 - - -
     Code ....._
     Cache Space No .. ___
     DataBase ..... 1955 (WIS1955)
Command ==>
PF1----- PF2----- PF3----- PF4----- PF6---- PF7---- PF8----- PF12-----
Help
                Exit
                                                           Menu
```

The following function codes are available:

Code	Description
D	Define a new cache space for one or more RABNs
Μ	Perform global operations on all cache spaces defined for the database
0	Display and modify individual cache spaces defined for the database
Р	Display and modify current settings of ADARUN parameters
S	Display summary cache session statistics

Define RABNs to be Cached

Selecting option D from the Global Cache Main Menu displays a menu of functions for defining one or more RABNs to be cached:

14:57:55	****	A D A B A S CACHING FACILITY **** 2004-05-11 - Define RABNs to be Cached - PCHD002 Global Cac			2004-05-11 PCHD002 Global Cache
		Code	Function		
		A D ?	Define Asso Cache Define Data Cache Help Exit		
Code Memory Type RABN Number RABN Number Cache Space Database	e From . To No	·	(WIS1955)		
Command ==> PF1 PF2 Help	- PF3 Exit	PF4	! PF6 PF7	- PF8	PF12 Menu

Field	Description
Code	RABNs may be cached in Associator (option A) and/or Data Storage (option D) space. A separate operation is required for each type of caching.
Memory Type	The memory type can be extended memory (E), data space (D), hiperspace (H), virtual 64 backed by large pages (L), or virtual 64 (V). The choices available depend on the operating system configuration under which Adabas is running. Virtual 64 is only available for systems running z/OS version 1.2 or above on the appropriate hardware. Virtual 64 backed by large pages is only available for systems running z/OS Version 1.9 or above on the appropriate hardware.
RABN Number FromTo	Specifying the start RABN (RABN Number From) and the end RABN (RABN Number To) defines a RABN range to be cached in the defined cache space. If only one RABN is to be cached, it is not necessary to specify an ending RABN number.
Cache Space No	A cache space number (CSN) is a unique number called the RABN Range ID that will be assigned to the new RABN range. Valid values are 0 through 65535. If the number specified is already in use, the new RABN range definition is ignored and an error message is displayed on both DDPRINT and the operator console. If no number is provided or zero is specified, a CSN allocated by the nucleus will be returned.

Description					
Note: Cache Space Number (CSN) is a term retained for compatibility with earlier versions of Adabas Caching. However, the CSN now identifies the RABN Range ID to be used as there is no longer a direct correlation between cache spaces and RABN ranges.					
The corresponding direct commands are DEFINE CACHE					
and ADD CACHE					

Global Cache Maintenance

Selecting option M from the Global Cache Main Menu displays a menu of functions for maintaining cache spaces:

```
A D A B A S CACHING FACILITY *****
15:13:08
               *****
                                                           2004-05-11
                     - Global Cache Maintenance -
                                                           PCHM002
                                                           Global Cache
                     Code
                            Function
                     - - - -
                            D
                            Delete Cache
                            Modify Cache
                       М
                       Ε
                            Enable Cache
                       S
                            Disable Cache
                       ?
                            Help
                            Exit
                       .
                             - - - -
       Code .....
       Cache Space No .. ALL
       Database ..... 1955 (WIS1955)
Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
                 Exit
                                                           Menu
```

From this screen, global operations can be performed on *all* cache spaces defined for the database. The allowed functions are

D	Delete all cache spaces. Once deleted, spaces must be redefined using Main Menu function D or by restarting the Adabas nucleus with the relevant ADARUN parameters.
М	Move all cache spaces to the memory type (E for extended; D for data space; H for hiperspace; L for virtual 64 backed by large pages; V for virtual 64) you specify on the Memory Type window that appears.
S	Disable all cache spaces.
E	Start cache operation for all cache spaces.

The corresponding direct command is

MODIFY CACHE

These same functions can be performed on individual cache spaces using the Maintain Cache Spaces function (menu option O).

Maintain Cache Spaces

Selecting option O from the Global Cache Main Menu displays a list of cache spaces currently allocated for the database:

```
15:16:05 *****
                   A D A B A S CACHING FACILITY ***** 2004-05-11
                     - Maintain Cache Spaces -
DBID 1955
                                                      PCHS002
                                                      Global Cache
                                Last Activity Stat Error Status
Sel No Mem. Cach RABN Range
       Type Type From To
       ---- ---- -----
                        . _ _ _ _ _
                                         1 EXT ASSO 281 801 2001-09-13 10:43 ALLO
     2 EXT DATA 1 630
                               2001-09-13 10:42 ALLO
   Select DI(Display) EN(Enable) DS(Disable) DE(Delete) MO(Modify)
PF1----- PF2----- PF3----- PF4----- PF6---- PF7---- PF8----- PF12-----
               Exit
                        Refresh
Help
                                                      Menu
```

Note: If you specify the cache space number (CSN) on the Global Cache Main Menu along with function code O, the Cache Statistics screen for that CSN is displayed (DI) directly.

For each RABN range listed on the Maintain Cache Spaces screen, you can display and modify caching parameters by entering one of the following commands in the Select column:

Cmd	Action
MO	Move the selected cache space to the memory type (E for extended; D for data space; H for hiperspace; L for virtual 64 backed by large pages; V for virtual 64) you specify on the Memory Type window that appears.
DE	Delete the selected cache space. Once deleted, the space must be redefined using the Main Menu function D or the relevant ADARUN parameters.
DI	Display the detailed cache space statistics. The information provided is the same as that resulting from the CSTAT operator command.
DS	Disable the selected cache space.
EN	Start caching operation for the selected cache space.

Column	Description
No.	Cache space number (CSN). This is actually a unique RABN Range ID as there is no longer a direct correlation between cache spaces and RABN ranges.
Memory Type	Caching type for each cache space: extended storage (EXT), data spaces (DS), hiperspaces (HS), virtual 64 backed by large pages (L64) or virtual 64 storage (V64).
Cache Type	Database component being cached in the cache space: Associator (ASSO), Data Storage (DATA), Work part 2 (WRK2), or Work part 3 (WRK3).
RABN Range	The starting (From) and ending (To) RABNs of the RABN range being cached in the cache space.
Last Activity	The date and time the cache space was last accessed.
Status	The current status of the cache space: disabled (DISA); unallocated (UNAL); or ALLC (allocated).
Error Status	If an error condition has occurred, the cause of the error will be displayed in this field.

The other columns on the Maintain Cache Spaces display contain the following information:

Cache Statistics

Entering DI in the Select column on the Maintain Cache Spaces screen or selecting option O and specifying a cache number on the Global Cache Main Menu displays the Cache Statistics screen for an individual cache space:

****	* ADAB/	A S CACHI	NG FACILITY	****	2004-05-11
	- (Cache Stat	istics -		PCHSOO2 Global Cache
e No	2				
уре	EXT				
mponent	DATA				
ge	1 - 630				
ivity	2001-09-13	10:42:51			
atus	ALLOCATED				
ites	6322				
he used	236180		Elapsed Time	per Cache	e Read Request
ze	1515520		Max	0.013	3168
ficiency	99	.0 %	Min	0.000	002
ads	6273		Avg	0.000	013
PS	62				
ads	6335		EXCP Time <in< td=""><td>microsed</td><td>conds></td></in<>	microsed	conds>
n Cache	49		Max	0.007	7237
ache Space.	314		Min	0.003	3476
ex Size	2536	(bytes)	Avg	0.003	3923
	**** e No ppe ge ivity atus ites he used ficiency ads pS ads n Cache ache Space. ex Size	***** A D A B / - (e No 2 ype EXT mponent DATA ge 1 - 630 ivity 2001-09-13 atus ALLOCATED ites 6322 he used 236180 ze 1515520 ficiency 99 ads 6273 PS 62 ads 6235 n Cache 49 ache Space. 314 ex Size 2536	<pre>***** A D A B A S CACHIN - Cache Stat e No 2 ype EXT mponent DATA ge 1 - 630 ivity 2001-09-13 10:42:51 atus ALLOCATED ites 6322 he used 236180 ze 1515520 ficiency 99.0 % ads 6273 PS 62 ads 6235 n Cache 49 ache Space. 314 ex Size 2536 (bytes)</pre>	<pre>***** A D A B A S CACHING FACILITY - Cache Statistics - e No 2 ype EXT mponent DATA ge 1 - 630 ivity 2001-09-13 10:42:51 atus ALLOCATED ites 6322 he used 236180 Elapsed Time ze 1515520 Max ficiency 99.0 % Min ads 6273 Avg PS 62 ads 6335 EXCP Time <in n Cache 49 Max ache Space. 314 Min ex Size 2536 (bytes) Avg</in </pre>	<pre>***** A D A B A S CACHING FACILITY ***** - Cache Statistics - e No 2 ype EXT mponent DATA ge 1 - 630 ivity 2001-09-13 10:42:51 atus ALLOCATED ites 6322 he used 236180 Elapsed Time per Cache ze 1515520 Max 0.013 ficiency 99.0 % Min 0.000 ads 6273 Avg 0.000 PS 62 ads 6335 EXCP Time <in (bytes)="" 0.003="" 0.003<="" 2536="" 49="" avg="" cache="" ex="" max="" microsec="" n="" pre="" size=""></in></pre>

Press ENTER to continue

The information displayed on this screen is the same as that displayed by the CSTAT operator command.

Note: Values for Max. Cache used, Cache Size, RABNs in Cache, and RABNs/Cache Space represent bytes, but may be marked with a K (1 kilobyte=1024 bytes), M (1 mega-byte=1,048,576 bytes), or G (1 gigabyte=1,073,741,824 bytes) indicator when the size of the value requires it.

Maintain Cache Parameters

Selecting option P from the Global Cache Main Menu displays the current Adabas Caching (ADARUN) parameter values and allows you to change them:

15:28:46 **	*** ADABAS C	ACHING FACILITY ****	* 2004-05-11
DBID 1955	- Maintain Ca	che Parameters -	PCHS002
Display Cache Spac Minimum Buff. Effi Elapsed Time (GETM Time of Inactivity Max. No. Permitted	e Stats. YES_ ciency0 MAIN)900 7200 5	sec sec	(CDISPSTAT) (CDEMAND) (CRETRY) (CCTIMEOUT) (CMAXCSPS)
Max. ASSO Cache Si Max. DATA Cache Si WORK Memory Type . Percent WORK2 RABN Percent WORK3 RABN	ze303104 ze303104 EXT Is 0 % IS 0 %	-	(CASSOMAXS) (CDATAMAXS) (CWORKSTORAGE) (CWORK2FAC) (CWORK3FAC)
Read-ahead Caching Number of Buffer Command Types Ex Ir	s 0 scluded scluded . P/L/H/F	PHYS/LOGI/HIST/FIND	(CBUFNO) (CEXCLUDE)
PF1 PF2 Help	PF3 PF4 Exit	PF6 PF7 PF8	8 PF12 Menu

Note: Values for Max. ASSO Cache Size and Max. DATA Cache Size represent bytes, but may be marked with a K (1 kilobyte=1024 bytes), M (1 megabyte=1,048,576 bytes), or G (1 gigabyte=1,073,741,824 bytes) indicator when the size of the value requires it.

For more information about these parameters, see the section Adabas Caching Parameters.

Global Cache Session Summary

Selecting option S from the Global Cache Main Menu displays a summary of information for the Adabas Caching session including cache statistics, read-ahead statistics, and allocation statistics for active and inactive cache spaces. This information is the same as that displayed when the CSUM command is issued.

15:31:08 * DBID 1955	**** A D A B A Cache	S CACHING Session Summ	FACILITY **** ary	* 2	2011-02-04 PCHS002 Global Cache
Cache Allocation	Summary			ſ	Page 1
Current Adabas	Buffer Efficien	су	278.7		Ŭ
Projected NON-C	ACHE Buffer Eff	iciency	11.3		
Number of Activ	e RABN ranges .	• • • • • • • • • • •	0		
Number of RABN	ranges defined		2		
	ASS)	- DATA	I	VORK
Cache Statistics					
Cache writes		127	6322		0
Read EXCPS		17	62		0
Cache reads		118	6273		0
Total reads		135	6335		0
Efficiency		87.4	99.0		0.0
Read Ahead Statis	tics				
RABN's read		0	0		
EXCPS		0	0		
Ave. blks/EXCP		0.0	0.0		next page
Page 2					
Cache Size Summary					
	ASS)	- DATA	I	VORK
Max Cache Size	••••	L,480 K	1,480 K		0 K
EXT Allocated .		296 K	296 K		0 K
EXT Highest		296 K	296 K		
DSP Allocated .		0 K	0 K		0 K
DSP Highest		0 K	0 K		
HSP Allocated .		0 K	0 К		0 К
HSP Highest		0 K	0 К		
V64 Allocated .		0	0		0 К
V64 Highest		0	0		
L64 Allocated		0	0		0 К
L64 Highest		0	0		
Allocation Stat	istics marked a	s K. M. or G.			

Help screens are available by pressing PF1 from each page of the Cache Session Summary report.



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Maintain Cache Parameters	25
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File-Level Caching Main Menu

If the ADARUN CFILE parameter has been specified, the File Level Main Menu appears when you select Caching Facility from the main menu:

13:59:1	2 ***** A D A -	B A S CACHING FACILITY File Level Main Menu –	****	2004-05-11 PCF0002 File Level
	Code	Function		
	D F M O P S ? Code DataBase 1955	Define File Cache Files with Caching Maintain File Cache Maintain Cache Spaces Maintain Cache Parameters Cache Session Summary Help Exit (WIS1955)		
Command PF1 Help	==> - PF2 PF3 Exit	PF4 PF6 PF7	PF8	PF12 Menu

The following functions are available:

Code	Description
D	Define a new cache space for one or more files
F	Display detailed cache space statistics for a file
Μ	Enable, disable, or delete caching for one or more files
0	Enable, disable, or delete caching for the Work dataset
Р	Display and modify current settings of ADARUN parameters
S	Display summary cache session statistics

Notes:

1. Although it is possible to define different cache spaces for the Associator and Data Storage of a single file using a separate ADARUN CFILE parameter for each, it is not possible to do so using Adabas Online System functions or operator commands. To define both Associator and

Data Storage caching for a file using Adabas Online System functions or operator commands, you must use the BOTH option that uses the same caching parameters for both.

2. Once file level caching has been defined for a file using the ADARUN CFILE parameter, Adabas Online System functions, or operator commands, it is not possible to change the caching parameters without first deleting the defined cache space and then adding a new cache space with the different parameters. For example, if you have Data Storage caching defined for a file and you want to add Associator caching, you must first delete the Data Storage cache space and redefine caching for the file using the BOTH option.

Define File Cache

Selecting option D from the File Level Main Menu displays a menu of functions used to define a new cache space for one or more files:

13:32:45	**** A D A -	B A S CACHING FACILITY ***** Define File Cache -	2004-05-11 PCFD002 File Level
	Code	Function	
	A B D ?	Define Asso Cache Define Asso and Data Cache Define Data Cache Help Exit	
Code Memory Type File Number Class of Sen Database		 (WIS1955)	
Command ==> PF1 PF2 Help	PF3 P Exit	F4 PF6 PF7 PF8	- PF12 Menu

Field	Description
Code	One or more files may be defined for Associator (option A), Data Storage (option D), or both (option B). No RABN ranges need to be specified: RABNs are added automatically. The file number may be any file within the database maximum files value.
Memory Type	The memory type may be extended (E), data space (D), hiperspace (H), virtual 64 backed by large pages (L), or virtual 64 (V), depending on the operating system environment.
File Number	The file or file range for which caching is to be defined.

Field	Description
Class of Service	The class of service. Possible values are:
	■ 1: cache up to 100% of the file
	■ 2: cache up to 75% of the file
	■ 3: cache up to 50% of the file
	■ 4: cache up to 25% of the file
	■ 5: cache up to 10% of the file

Files With Caching

Selecting option F from the File Level Main Menu displays a list of files that use caching:

```
***** A D A B A S CACHING FACILITY *****
13:37:48
                                                        2004-05-11
DBID 1955
                     - Files with Caching -
                                                        PCFF002
                                                        File Level
    File File Name
Sel
                                 Cache Type State
                                 -----
- - -
     -----
        0 Unassigned RABNs
                                Asso/Data
                                           Not accessed
        1 EMPLOYEES
                                Asso/Data Active
        2 VEHICLES
                                Asso/Data Active
          3 - 5 not loaded
        6 EXPANDED
                                Asso/Data
                                           Not accessed
        7 EXPANDED
                                Asso/Data Not accessed
          8 - 9 not loaded
       10 TRIGGER-FILE
                                Asso/Data Not accessed
          11 - 18 not loaded
       19 CHECKPOINT
                                 Asso/Data
                                           Active
          20 - 25 not loaded
Specify 'DI' (Display), EN (Enable) DE (Delete) or DS (Disable) for a file
Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help Repos
               Exit
                       Refr --
                                              + Menu
```

Entering DI in the Sel column for a file displays detailed cache space statistics for that file.

The information displayed on the resulting Statistics screen is the same as that provided by the CFSTAT command.

13:41:59 **** DBID 1955	* A D A B A -	S CACHII Statistic	NG FACILITY cs -	****	2004-05-11 PCFF002
					File Level
File 1 EMPLOYEES					
Memory type	DSP				
Cache component	Data Class	1 (100%)			
RABN range	DS Blks	271 -	320		
Last activity	2001-09-13	09:24:06			
Cache status	ALLOCATED				
Cache writes	12579				
Max. Cache used	231360		Elapsed time	per Cache	read request
Cache Size	5118840		Max	0.1436	85
Cache efficiency	99.	6 %	Min	0.0000	02
Cache reads	12547		Avg	0.0000	29
Read EXCPS	49		Ŭ		
Total reads	12596		EXCP Time (in	n microsecc	nds)
RABN's in Cache	32		Max	0.0493	67
RABN's/Cache Space.	1060		Min	0.0035	09
RABN Index Size	216	(bytes)	Avg	0.0091	83
PF1 PF2 PF3	3 PF4-	PF6	PF7	- PF8	PF12
Help Ex	it			+	Menu

Each file may have several screens for each of the following:

AS	Unassigned Associator
AC	Address Converter
A2	Secondary ISNs
NI	Normal Index
UI	Upper Index
DS	Data Storage

The example screen shown here provides information for one DS extent of file number 1.

Maintain File Cache

Selecting option M from the File Level Main Menu displays a menu of functions used to enable, disable, or delete caching for one or more files:

13:43:56	****	ADAB - Ma	A S CACHING FACILITY intain File Cache -	****	2004-05-11 PCFM002 File Level
		Code	Function		
		D	Delete Cache		
		E	Enable Cache		
		S	Disable Cache		
		?	Help		
		•	Exit		
	Code File Number . Database	0 1955	- (WIS1955)		
Command =	\Rightarrow				
PF1	PF2 PF3-	PF	4 PF6 PF7	- PF8	PF12
Help	Exit				Menu

This following functions are available:

D	Delete all cache spaces for a particular file or range of files
E	Enable all cache spaces for a particular file or range of files
S	Disable all cache spaces for a particular file or range of files

Maintain Cache Spaces

Selecting option O from the File Level Main Menu displays the Work cache spaces:

```
**** A D A B A S CACHING FACILITY ****
13:45:34
                                                        2004-05-11
                      - Maintain Cache Spaces -
DBID 1955
                                                        PCHS002
                                                        File Level
Sel No Mem. Cach RABN Range
                                 Last Activity Stat Error Status
       Type Type From To
                  - - - -
                                                     64001 EXT WRK2 202 211
64002 EXT WRK3 222 2392
                                                UNAL
                                                UNAL
   Select DI(Display) EN(Enable) DS(Disable) DE(Delete) MO(Modify)
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
                Exit
                        Refresh
                                                        Menu
```

For each RABN range listed on the Maintain Cache Spaces screen, you can display caching parameters, modify the memory type, and maintain the cache space by entering one of the following commands in the Select column:

MO	Move the selected cache space to the memory type (E for extended; D for data space; H for hiperspace; L for virtual 64 backed by large pages; V for virtual 64) you specify on the Memory Type window that appears.
DE	Delete the selected cache space. Once deleted, the space must be redefined using the relevant ADARUN parameters.
DI	Display the detailed cache space statistics. The information provided is the same as that resulting from the CSTAT operator command.
DS	Disable the selected cache space.
ΕN	Enable the selected cache space.

The other columns on the Maintain Cache Spaces display contain the following information:

Column	Description
No.	Cache space number (CSN). This is actually a unique RABN Range ID as there is no longer a direct correlation between cache spaces and RABN ranges.
Memory Type	Caching location for each cache space: extended storage (EXT), data spaces (DS), hiperspaces (HS), virtual 64 backed by large pages (L64), or virtual 64 storage (V64).
Cache Type	Database component being cached in the cache space: Work part 2 (WRK2), or Work part 3 (WRK3).

Column	Description
RABN Range	The starting (From) and ending (To) RABNs of the RABN range being cached in the cache space.
Last Activity	The date and time the cache space was last accessed.
Status	The current status of the cache space: disabled (DISA); unallocated (UNAL); or ALLC (allocated).
Error Status	If an error condition has occurred, the cause of the error will be displayed in this field.

Work Cache Space Statistics

Entering DI in the Select column on the Maintain Cache Spaces screen displays the Cache Statistics screen for an individual Work cache space:

13:47:03 ****	* A D A B A S CAC	HING FACILITY	*****	2004-05-11
DBID 1955	- Cache St	atistics -		PCHS002
				File Level
Cache Space No	1			
Memory Type	EXT			
Cache Component	WRK2			
RABN-range	202 - 211			
Last Activity				
Cache Status	UNALLOCATED			
Cache Writes	0			
Max. Cache used	0	Elapsed Time	per Cache	Read Request
Cache Size	57344	Max	0.0000	
Cache Efficiency	0.0 %	Min	0.000	000
Cache Reads	0	Avg	0.000	000
Read EXCPS	0			
Total Reads	0	EXCP Time <in< td=""><td>microseco</td><td>onds></td></in<>	microseco	onds>
RABN's in Cache	0	Max	0.000	000
RABN's/Cache Space.	10	Min	0.000	000
RABN Index Size	56 (bytes)	Avg	0.000	000
Press ENTER to cont	inue			

The information displayed on this screen is the same as that displayed by the CSTAT operator command.

Note: Values for Max. ASSO Cache Size and Max. DATA Cache Size represent bytes, but may be marked with a K (1 kilobyte=1024 bytes), M (1 megabyte=1,048,576 bytes), or G (1 gigabyte=1,073,741,824 bytes) indicator when the size of the value requires it.

Maintain Cache Parameters

Selecting option P from the File Level Main Menu displays the current setting of the Adabas Caching (ADARUN) parameters and allows you to change them:

14:00:14	**** A D	ABAS CA	CHING FACIL	ITY ****	2004-05-11
DBID 1955	- M	aintain Cao	the Parameters	S -	PCFP002
Display Cache Sp Minimum Buff. Ef Elapsed Time (GE Time of Inactivi Max. No. Permitt	ace Stats. ficiency . TMAIN) ty ed	YES0 900 7200 5	sec sec		(CDISPSTAT) (CDEMAND) (CRETRY) (CCTIMEOUT) (CMAXCSPS)
Max. ASSO Cache Max. DATA Cache WORK Memory Type Percent WORK2 RA Percent WORK3 RA	Size Size BNs BNS	1024000 1024000 EXT 50 % 50 %	_		(CASSOMAXS) (CDATAMAXS) (CWORKSTORAGE) (CWORK2FAC) (CWORK3FAC)
Read-ahead Cachi Number of Buff Command Types	ng ers Excluded . Included .	0 P/L/H/F	PHYS/LOGI/HIS	ST/FIND	(CBUFNO) (CEXCLUDE)
PF1 PF2 Help	- PF3 Exit	PF4	PF6 PF7	PF8-	PF12 Menu

Note: Values for Max. ASSO Cache Size and Max. DATA Cache Size represent bytes, but may be marked with a K (1 kilobyte=1024 bytes), M (1 megabyte=1,048,576 bytes), or G (1 gigabyte=1,073,741,824 bytes) indicator when the size of the value requires it. In the example screen, the value 1,024,000 may also be designated as 1000 K.

For more information about these parameters, see the section Adabas Caching Parameters.

Cache Session Summary

Selecting option S from the File Level Main Menu displays a summary of information for the Adabas Caching session including cache statistics, read-ahead statistics, and allocation statistics for active and inactive cache spaces. This information is the same as that displayed when the CSUM command is issued.

14:19:37 ***** A	D A B A S CACHIN	G FACILITY ** Summary -	**** 2004-0 PCE000	5-11 2
		Summary	File L	evel
Cache Allocation Summary			Page 1	
Current Adabas Buffer	Efficiency	473.2		
Estimated NON-CACHE Bu	ffer Efficiency	10.6		
Number of Active Cache	Spaces	10		
Number of Cache Spaces	defined	15		
	ASSO	DATA	WORK	
Cache Statistics				
Cache writes	214	12596	0	
Read EXCPS	17	62	0	
Cache reads	203	12548	0	
Total reads	220	12610	0	
Efficiency	92.2	99.5	0.0	
Read Ahead Statistics				
RABN's read	0	0		
EXCPS	0	0		
Ave. blks/EXCP	0.0	0.0	next pag	e >>
Page 2				
Cache Size Summary				
, i i i i i i i i i i i i i i i i i i i				
	ASSO	DATA	WORK	
Max Cache Size	5,000 K	5,000	K 5,884	К
EXT Allocated	0 K	0	К 0	К
EXT Highest	0 K	0	К	
DSP Allocated	1,000 K	1,000	К 0	К
DSP Highest	1,000 K	1,000	K	
HSP Allocated	0 K	0	К 0	K
HSP Highest	0 K	0	K	
V64 Allocated	0	0	0	K
V64 Highest	0	0		
L64 Allocated	0	0	0	K
L64 Highest	0	0		
Allocation Statistics r	marked as K, M, or	G.		

Help screens are available by pressing PF1 from each page of the Cache Session Summary report.