Reviewing the Database Report

Selecting Database report (option **R**) from the **Main Menu** displays the **Database Report** menu:

Options on the **Database Report** menu provide information only; none of the displayed information can be changed. However, direct commands can be entered on this menu to invoke other Adabas Online System (AOS) functions for making changes.

Database Report functions provide both general and specific information in either table or report format. They correspond to selected functions of the Adabas ADAREP utility.

```
17:10:08
               ***** A D A B A S BASIC SERVICES *****
                                                          2009-08-24
                                                          PDR0002
                         - Database Report -
               Code Service
                      _____
               ____
                      List files with crit. no. of extents
                С
                     Display field description table (FDT)
                D
                F
                     Display file(s)
                G
                     General database layout
                     List VOLSER distribution of database
                L
                R
                     Display ASSO/DATA block (RABN)
                U
                     Display unused storage
                ?
                     Help
                     Exit
                      _____
   Code ..... _
   File No ..... 66____ Password ..
   Database ID .. 1955 (WIS1955)
   VOLSER .....
Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
                Exit
Help
                                                        Menu
```

Options allow you to view database-level general information and tables of database files, files whose extents are at or near the allowable maximum, file-specific information for any file, physical database distribution by volume/serial number (VOLSER), and available space that is not currently being used. Additional displays are available using direct commands.

The **Database Report** provided in AOS includes the following information, selected using the appropriate option code, as follows:

Option	Function
С	<i>Displaying Files with Critical Number of Extents</i> shows a list of the files that have a critical number of extents.
D	<i>Displaying Field Definition Table (FDT)</i> shows the field definition table (FDT) and special descriptor table (SDT) for the specified file.
F	<i>Displaying Files</i> shows file(s), either a list of all files in the specified database or detailed information about a specific file.
G	Displaying General Database Layout shows the general layout of the specified database.
L	<i>Displaying Volume/Serial Numbers for Database</i> shows the volume/serial number layout of the specified database.
R	Displaying RABNs shows Associator / Data Storage blocks (RABNs).
U	Displaying Unused Storage shows unused storage.

Displaying Files with Critical Number of Extents

Option C (List files with crit. no. of extents) on the **Database Report** menu provides a list of the files in the database that are at the critical number of extents. If no such files exist in the database, a message is displayed.

Note:

The exact extent count is provided in the general Display File(s) (**F**) option by table type (AC, NI, UI, or DS).

Displaying Field Definition Table (FDT)

Option **D** (Display field description table (FDT)) on the **Database Report** menu provides a list of the field definitions in the FDT. The Display FDT screen appears.

Note:

For more detailed information about field definitions, read your Adabas ADACMP utility documentation; for more information about interpreting FDTs, read your Adabas ADAREP utility documentation. Both are available in the *Adabas Utilities* documentation.

***** A D A B A S BASIC SERVICES ***** 02:12:53 2009-12-19 DBID 1955 - Display FDT -PDRD032 Field Description Table: File 29 (TEST-29) -----Total Fields without SDT ... 16 Lev I Name I Leng I Form I Options I Predict Fld Name or DT / SY 1 I AA I 004 I A I Ι 1 I BB I 004 I A I Ι 1 I BC I 004 I A I I 1 I AE I OO4 I A I DE I 1 I AF I 004 I A I XD UQ I

 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 I BITZ I BI T I 016 I 1 Ι SS DT=E(TIMESTAMP) I SG I 003 I B I 1 1 I SP I 008 I B I *Deleted Field* I 1 I SQ I 008 I B I DE Т PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----Exit Help -- - + Menu

For a specified file, option **D** displays the field definition table (FDT), which includes:

- the total number of fields in the file;
- the level number of each field;
- the two-character name of each field;
- the length of each field in bytes;
- the data type (format) of each field: <u>Alphanumeric</u>, <u>Binary</u>, <u>Fixed</u> point, floatin<u>G</u> point, <u>Packed</u> decimal, <u>Unpacked</u> decimal, or <u>Wide-character</u>;
- data definition options for each field: <u>CK</u> for untranslatable characters, <u>DE</u>scriptor, <u>FI</u>xed storage, <u>Long Alphanumeric, MU</u>ltiple-value field, <u>Null/not Counted</u> (that is, SQL null representation), <u>Null/Not allowed, NUll value suppression, NV</u> no conversion, <u>PE</u>riodic group (the fields that compose the periodic group are those that follow and have a higher level number), <u>UniQue descriptor</u> value;

Note:

If an online inversion of a field is in process, this information is noted in the Options column. In addition, if the field has been deleted online, this information in noted in the Options column.

• equivalent Predict names, if any, for each field or, if the field is a date or time, the edit mask used for the field. A complete description of edit masks can be found in your Adabas documentation.

On the Display FDT screen, press PF2 to access the special descriptor table (SDT) for the file on the Display SDT screen:

```
***** A D A B A S BASIC SERVICES ***** 2009-08-24
17:34:32
DBID 1955
                                                                                                                                                                            PDRD012
                                                                          - Display SDT -
  SUB-/SUPER Table: File 1 (EMPLOYEES)
  _____
  Type I Name I Length I Format I Options
                                                                                                                           I Structure
                                                                                                                                                                                 I

      SUPER
      I
      H1
      I
      4
      I
      B
      I
      DE
      NU
      I
      AU (
      1
      -
      2
      )I

      I
      I
      I
      I
      I
      DE
      NU
      I
      AU (
      1
      -
      2
      )I

      PHON
      I
      PH
      I
      I
      I
      I
      I
      AV (
      1
      -
      2
      )I

      SUB
      I
      PH
      I
      I
      I
      I
      I
      PHON(
      AE
      )
      I

      SUB
      I
      S1
      I
      4
      I
      A
      I
      DE
      I
      AO (
      1
      -
      4
      )I

      SUPER
      I
      S2
      I
      26
      I
      A
      I
      DE
      I
      AO (
      1
      -
      6
      )I

      I
      I
      I
      I
      I
      I
      I
      AE (
      1
      -
      20
      )I

      SUPER
      I
      S3
      I
      12
      I
      A
      I
      DE
      NU
      PE
      <
PF1----- PF2------ PF3------ PF4------ PF6----- PF7----- PF8----- PF12-----
                      Disp FDT Exit -- - +
Help
                                                                                                                                                                       MENU
```

The SDT provides field information about all sub-/super-/hyperdescriptors, collation descriptors, phonetic descriptors, and sub-/superfields for the file.

In addition to the field's special descriptor type, two-character name, length, format (data type), and data definition options, the SDT identifies the structure of the special descriptor; that is, the component fields and field bytes of sub-/super-/hyperdescriptors and sub-/superfields; the equivalent alphanumeric elementary fields of phonetic descriptors; and the associated user exit of collation descriptors.

The equivalent direct commands are:

```
DISPLAY FDT file-number
```

Displaying Files

If no particular file is specified, option \mathbf{F} (Display file(s)) on the **Database Report** menu lists all files in the specified database. If a file is specified, option \mathbf{F} provides detailed layout information for the file. Physical device and file layout information is available only for a specific file.

This section covers the following topics:

- Display a List of Files in the Specified Database
- Display Information for a Specific File

Display a List of Files in the Specified Database

When no file number or "0" (zero) is specified in the File No field on the **Database Report** menu, a list of the files in the specified database is displayed on the Display Files screen:

18:33 DBID	1:39 1955	**** A D A	B A S BASIO - Display D	C SERVICES Files -	* * *	* * *			2009- PDRF(-08 032	-24
Fnr	File Name	Loaded	Top-ISN	Max-ISN	Ext	ent	s		Ind.	%U;	sed
		YY-MM-DD			NI	UI	AC	DA	ACISEXU	A	D
1	EMPLOYEES	09-02-17	1107	1695	2	1	1	1	NNISNNN	77	92
2	VEHICLES	09-02-17	773	1695	1	1	1	1	NNISNNN	86	12
3	MISCELLANEOUS	09-02-17	1779	2543	2	1	2	1	NNISNNN	86	53
6	EXPANDED	09-02-17	1107	1600	1	1	1	1	NNISNXN	74	46
7	EXPANDED	09-02-17	3107	3600	1	1	1	1	NNISNXN	74	46
10	TRIGGER-FILE	09-02-17	0	1695	1	1	1	1	NNISNNN	8	0
11	NAT-SYSTEM	09-02-17	62118	80559	1	1	1	1	NNISNNU	96	97
12	NAT-USER	09-02-17	366	30527	1	1	1	1	NNISNNN	45	50
13	NAT-FDIC	09-02-17	6	5087	1	1	1	1	NNISNNN	33	1
19	CHECKPOINT	09-02-17	1821	2543	1	1	2	1	NNNSNNN	2	9
20	FILE-1955-20	09-03-04	16	1695	1	1	1	1	NNNSNNN	5	20
21	FILE-1955-21	09-03-04	7	1695	1	1	1	1	NNNSNNN	0	10
22	22-SPAN	09-08-03	35	57663	1	2	2	2	NNNSNNN	0	19
23	REPL BRO	09-07-22	1000	20351	1	1	1	1	NNNSNNN	0	1
PF1-	PF2	PF3 P	F4 PF6	5 PF7		- PF	8		- PF12		
Help	Repos	Exit E	xtents	-		+			Menu		

The PF2 (Reposition) key displays a window in which you can enter a new starting value for the file list. When you enter a file number, the Display Files list begins with that file.

If the extents (NI, UI, AC, and DA) listed on this screen exceed 99 and you want to see their actual values or if you would like to see the value of any secondary AC extent, press the PF4 (Extents) key. The window changes slightly to show the expanded values of the extents, although, due to screen space, the indicators are removed.

The Display Files screen provides the following information for each file:

- file number and file name;
- date the file was loaded into the database;
- highest ISN currently in use in the file and the highest ISN allowed in the file;
- number of logical extents currently assigned: by Associator (*N* ormal index; *U* pper index; *A* ddress converter) and *D* ata Storage. A maximum of five logical extents may be allocated to a file.
- block padding factor percentage defined for the Associator and for Data Storage;
- indicators as follows:

Indicator	Description
А	ADAM option: $A = ADAM$ ISN- or descriptor-selected file; $N = non-ADAM$ file.
С	coupled (C) or non-coupled (N) file.
Ι	ISNs are reusable (I) or not (N).
S	Data Storage blocks are reusable (S) or not (N).
Е	data files are ciphered/encrypted (E) or not (N).
X	files are expanded (X) or normal (N).
U	USERISN option: $U = option$ is in effect for the file; $N = option$ is not in effect.

• percentage of allocated space currently used by the file in the Associator and in Data Storage.

The equivalent direct command is

DISPLAY FILE

Display Information for a Specific File

When a valid file number is specified on the **Database Report** menu, the following Display File Layout screen appears for that file (some of the items shown on the following sample screen only appear if those features are activated or used):

```
***** A D A B A S BASIC SERVICES *****
                                                               2009-12-19
02:21:28
DBID 1955
                           - Display File Layout -
                                                                 PDRF043
 * * * * * * * * * * * * * * * *
            *
   File 29
                  TEST-29
 * * * * * * * * * * * * * * * *
Records loaded ..... 0
                                 Date loaded ..... 2009-07-29 10:40:22
TOP ISN ..... 0
                                 Date of last update .. 2009-07-29 10:40:22
                                Max Compr Rec Lngth .. 5060
Max ISN expected ... 847
                                 Asso/Data Padding .... 10%/10%
Minimum ISN ..... 1
Size of ISN ..... 3 Bytes
                                 Highest Index Level .. 3
                                 RPLUPDATEONLY. No
Number of Updates .. 0
ISN Reusage ..... No
                                 USERISN ..... NO PGMREFRESH ..... NO
                                 MIXDSDEV ..... NO NOACEXTENSION .. No
Space Reusage ..... Yes
                                  Spanned rec .. No MU/PE indices .. 1
ADAM File ..... No
Ciphered File ..... No
                                  Replication .. No Privileged Use . No
Coupled Files ..... None
Blk per DS Extent .. 0
Blk per UI Extent .. 0
                                  Multi Client File .... 0
Blk per NI Extent .. 0
                                  Press Enter to display more information
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
                  Exit
                           Refresh
                                                               Menu
Help
```

```
02:22:19
                 ***** A D A B A S BASIC SERVICES *****
                                                               2009-12-19
DBID 1955
                           - Display File Layout -
                                                                 PDRF043
 ************
                                                                  Page 2
               *
   File 29
                   TEST-29
   ***********
                                 Date FCB modified .... 2009-08-21 12:12:04
Last format AC ISN .. 847
File readonly mode .. No
                                 Date FDT modified .... 2009-09-25 20:30:27
FDT deleted field ... Yes
File has 1/c fields . No
FDT has F,8 field ... No
FDT w/datetime mask . No
                                  SYFMAXUV value ..... 0
FDT w/system fields . No
Free space available for file extents: At least 133 Extents
PF1---- PF2---- PF3---- PF4---- PF6---- PF7---- PF8---- PF12----
Help
                  Exit
                            Refresh
                                                                Menu
```

The information for the file can be refreshed by pressing PF4. You can display additional information about UES codes, coupling, LOB file/fields and space allocations by pressing Enter.

The equivalent direct command is:

DISPLAY FILE file-number

The Display File Layout screen displays the following kinds of information for the file:

- the file number and name;
- the number of records currently contained in the file;
- ISN information: the highest ISN currently used in the file; the highest ISN planned for the file (see the ADALOD utility's MAXISN parameter); the lowest ISN that can be assigned to a record in the file (see the ADALOD utility's MINISN parameter); whether 3- or 4-byte ISNs are used for the file; and whether ISNs can be reused.
- the total number of updates since the file was last loaded;
- other file option settings: whether Data Storage space can be reused; whether the file was loaded with the ADAM option, the cipher option, the USERISN option; whether the file is physically coupled to another file; whether Data Storage extents can be on different device types; whether the file can be refreshed using the E1 command; whether the file permits the MAXISN setting to be increased.
- the number of blocks allowed per Data Storage, upper index, and normal index extent;
- the date and time the file was last loaded;

- the date and time of the last update to the file;
- the maximum compressed record length permitted for the file (see the ADALOD utility's MAXRECL parameter);
- the padding factor for the Associator and for Data Storage;
- the highest index level currently active for the file;
- whether the file may be updated only by the Event Replicator Server as part of Adabas-to-Adabas replication or by other means as well (RPLUPDATEONLY);
- whether or not index compression is turned on for the file;
- whether universal encoding support (UES) is being used;
- whether the file contains spanned records;
- the number of MU/PE indices in the file;
- whether replication has been activated for the file;
- the DSF changes being logged for the file;
- the total number of blocks in the file that have been changed by updates since the file was last loaded;
- the length of the owner ID for multiclient files.
- the maximum number of occurrences of MU system fields that can be stored in the file.

When universal encoding support (UES) is being used, pressing Enter from the initial Display File Layout screen lists the current code values:

In any case, pressing ENTER from the initial Display File Layout screen displays the following space allocation and usage information:

01:58 DBID File	01:58:25 ***** A D A B A S BASIC SERVICES ***** DBID 1955 - Display File Layout - File 11							2009-08-25 PDRF052				
I	Dev	LiI	Space al	located	I	From		То	I	Unused		
I	Type	TvI	Blocks	/ Cvls.	I	RABN		RABN	Ι	BLOCKS /	Cvls	
I·		I-			-I				- I ·	,		
т Т		T			т				т			
ASSOT	3390	ACT	95	0	т	5526	_	5620	Т	0		0
ASSOT	3390	TITT	50	0	т	6621	_	6670	т	32		0
ASSOT	3390	NTT	1000	3	т	5621	_	6620	т	15		
T	5570	T	1000	5	т	5021		0020	т	10		Ŭ
TATTA	3390	TPD	30000	200	т	751	_	30750	т	1048		6
DITITI	5550	DOI	50000	200	-	751		50750	-	1010		0
DF1	1	DF7	DF3-	DF4	1	DF6		DF7 1	ਹਿਸਾ	R ਹਜ12		
Telp		ст. 2 — —	Fr.J-	- FI-	 Tech	F I 0		E E / I	: т, (Menu		
nerb			5A10	кеі	LESII					Menu		

If LOB flags are set, the following information will be displayed:

16:52:35***** A D A B A S BASIC SERVICES *****2009-08-25DBID 1955- Display File Layout -PDRF042LOB File, Related file number29

or

```
02:07:30 ***** A D A B A S BASIC SERVICES ***** 2009-08-25
DBID 1955 - Display File Layout - PDRF043
File has LOB Fields, Related file number 29
```

Displaying General Database Layout

Option **G** (General database layout) on the **Database Report** menu displays general database information on the Display General DB-Layout screen.

The equivalent direct command is

DISPLAY DBLAYOUT

```
***** A D A B A S BASIC SERVICES *****
                                                          2009-08-25
02:11:11
DBID 1955
                                                                PDRG012
                       - Display General DB-Layout -
Database Name ..... WIS1955
Database Number ..... 1955
Database Version ..... 8.2
Database Load Date ..... 2009-02-17 19:07:58
System Files \ldots . 19 , 0 , 10 , 0 , 0 , 0 , 0
Maximum Number of Files .. 1000
Number of Files Loaded ... 18
Highest File Loaded ..... 66
Trigger File Number ..... 10
Size of RABN ..... 3 Bytes
Current Log Tape Number .. 77
                                      Replication Facility ..... Yes
Delta Save Facility ..... Inactive
Recovery Aid Facility .... Inactive
Universal Encoding Sup. .. Inactive
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
                  Exit
                                                              Menu
```

You can display additional information about UES codes, coupling, and space allocations by pressing Enter.

The Display General DB-Layout screen displays the following information for the file:

- the name and number of the database;
- the version level of the Adabas database software;
- the date and time the database was loaded;
- the numbers of Adabas system files allocated to the database;
- the maximum number of files permitted for the database; the total number of files currently loaded; and the highest file number currently in use;
- whether 3- or 4-byte RABNs are being used for the file;
- the number of the most recent data protection log tape for the database;
- whether the Adabas Delta Save Facility and/or the Adabas Recovery Aid (ADARAI) are active or inactive for the database.
- whether universal encoding support (UES) is being used.

When universal encoding support (UES) is being used, pressing ENTER from the initial Display General DB-Layout screen lists the current code values:

In any case, pressing Enter from the initial Display General DB-Layoutt screen displays the following space allocation and usage information:

02:15:32 DBID 1955	***** A D A B A - Display	S BASIC General	C SERVICE: DB-Layou	S **** t -	2009-08-25 PDRG012
IDeviceI	Total Number of	I	Extents	in Block	I DD-Names I
І Туре І	Blocks / Cyls	5. I	From	То	I I
II		I			-II
II		I			I I
ASSO I 3390 I	16182 6	50 I	1	16182	I DDASSOR1 I
	50000 40		1	50000	
DATA I 3390 I	59990 40	JU I T	T	59990	I DDDATARI I
WORK T 3390 T	8091 F	т 50 т	1	8091	T DWORKR1 T
			-	0071	
PF1 PF2	- PF3 PF4	PF6	5 PF7	PF8	PF12
Help	Exit				Menu

Displaying Volume Serial Numbers for Database

Option **L** (List VOLSER distribution of database) on the **Database Report** menu displays the physical volumes on which the database Associator and Data Storage files are located, sorted by VOLSER number for ASSO or DATA and including the highest RABN for each extent.

The equivalent direct command is

DISPLAY VOLSERTAB

The Display Volser-Tab screen appears.

```
02:18:49
                                                          2009-08-25
               ***** A D A B A S BASIC SERVICES *****
DBID 1955
                                                          PDRL002
                      - Display Volser-Tab -
Mark entries with 'D' to display file extents on volume :
                          I ASSO/ I Highest RABN I
                 Т
                M I VOLSER I DATA I in extent I
               -----
                _ I SMS125 I ASSO I 16182 I
_ I SMS125 I DATA I 59990 I
               Т
                                              I
                                              I
                                              I
                                              I
                                              I
                                              I
                                              I
                                             I
                                               Ι
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
                Exit
                                                        Menu
```

If you mark one of the entries on this screen with "D" (or you entered the VOLSER number directly on the **Database Report** menu), the file extents of the volume are displayed indicating the RABN range and device type of each extent (table type) in each file on the List File Extents on VOLSER screen:

02:19 DBID	9:54 195	5	* :	**** A I _) / Li	A B A S ist File	BASI Exte	C en	SERVIO ts on VO	CES OLS	S **** SER –	*	20	09- PE	08-25 RL022
	VOL	SER =	SMS12	25											
	ΙA	SSO/ I	Fro	om	I	То		I	Device	I	File	I	Table	I	
	I D	ATA I	Rak	on	I	Rabn		I	Type	I	Nr.	I	Туре	I	
	I	I·			-I-			-I		-I·		-I-		-I	
	ΙA	SSO I		5063	I		5086	Ι	3390	I	0	Ι	DSST	I	
	I	I		5087	I		5088	Ι	3390	I	19	I	AC	I	
	I	I		5089	I		5098	I	3390	I	19	Ι	UI	I	
	I	I		5099	I		5148	I	3390	I	19	I	NI	I	
	I	I		5149	I		5150	I	3390	I	1	I	AC	I	
	I	I		5151	I		5206	I	3390	I	1	I	NI	I	
	I	I		5207	I		5219	I	3390	I	1	I	UI	I	
	I	I		5220	I		5248	I	3390	I	1	I	NI	I	
	I	I		5249	I		5250	I	3390	I	2	I	AC	I	
	I	I		5251	I		5271	I	3390	I	2	I	NI	I	
	I	I		5272	I		5278	I	3390	I	2	I	UI	I	
	I	I		5279	I		5280	I	3390	I	3	I	AC	I	
PF1		PF2	I	PF3		PF4	PI	76	PI	77-	I	PF8	8 P	F12	
Help			I	Exit									М	enu	ι

Displaying RABNs

Option **R** (Display ASSO/DATA block (RABN)) on the **Database Report** menu invokes the Read ASSO/DATA Block screen.

The equivalent direct command is

<u>DI</u>SPLAY <u>RA</u>BN

02:22:43 DBID 1955	***** A D A B A - Read	S BASIC SERV ASSO/DATA Bloc	/ICES ***** ck –	2009-08-25 PDRR002
Туре	RABN No	(Offset 0000	
	Hex RABN	0000000		
00000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	00000000		
0000 0000000	0000000 0000000	00000000		
00000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	00000000		
0000 0000000	0000000 0000000	00000000		
0000 0000000	0000000 0000000	00000000		
00000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	00000000		
00000 0000000	0000000 0000000	0000000		
0000 0000000	0000000 0000000	00000000		
Enter RABN deta:	ils and press 'Ente	er' to display		
PF1 PF2	PF3 PF4	РҒб	PF7 PF8	PF12
Help	Exit			Menu

On this screen, enter a RABN type ("A" for Associator or "D" for Data Storage) and a RABN number (in either decimal or hexadecimal format) to display a screen similar to the following:

02:24:2 DBID 19	29 955	****]	ADABA - Read	S BASIC ASSO/DATA	SERVICES ***** Block -	2009-08-25 PDRR002
Туре	A (ASS) RABI	N NO	5150	Offset 0000	
		Hex	RABN	0000141E		
0000	00014F00	01500001	50000150	00015000	* ?! ?& ?& ?& ?& *	
0010	01500001	50000150	00015000	01500001	* ?& ?& ?& ?& ?& ? *	
0020	50000150	00015000	01500001	50000150	* & ?& ?& ?& ?& *	
0030	00015000	01500001	50000150	00015000	* ?& ?& ?& ?& *	
0040	01500001	50000150	00015100	01510001	* ?& ?& ?& ?? ?? ? *	
0050	51000151	00015100	01510001	51000151	*	
0060	00015100	01510001	51000151	00015100	* `` `` `` `` `` `` *	
0070	01510001	51000151	00015100	01510001	* `` `` `` `` `` `` *	
0080	51000151	00015100	01510001	51000152	*	
0090	00015200	01520001	52000152	00015200	* `` `` `` `` `` `` *	
00A0	01520001	52000152	00015200	01520001	* `` `` `` `` `` `` `	
00B0	52000152	00015200	01520001	52000152	*	
00C0	00015200	01520001	52000152	00015200	* `` `` `` `` `` `` *	
00D0	01520001	52000153	00015300	01530001	* `` `` `` `` `` `` *	
00E0	53000153	00015300	01530001	53000153	* 5 55 55 55 55 *	
D.E.1	נתק					
PRT	PFZ	PF3	PF4	PF6	PF/ PF8	RETZ
не⊥р		Exit	RABN-	+⊥	- +]	Menu

Option \mathbf{R} displays two-doubleword-per-screen rows of the specified RABN block from the Associator or Data Storage in hexadecimal format. Both the hexadecimal data and its alphanumeric equivalent are displayed. If the block is not assigned, zeros are displayed.

The blocks are displayed in the length of the Associator or Data Storage block length.

You can display information for the next highest RABN (that is, the current RABN number plus one) by pressing PF4.

Displaying Unused Storage

Option U (Display unused storage) on the **Database Report** menu displays a table of unused storage within the database. The Display Unused Storage screen appears.

The equivalent direct command is

DISPLAY UNUSED

```
***** A D A B A S BASIC SERVICES ***** 2009-08-25
- Display Unused Storage - PDRU012
02:27:40
DBID 1955
             Total Number of
    I Device I Total Number of I Extent
I Type I Blocks / Cyls. I from
                                        in Blk.
                                                I
                                         until I
                                     -
DATA I 3390 I 26245 174 I 33746 - 59990 I
ASSO I 3390 I 1 0 I 16182 - 16182 I
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help
            Exit
                                            Menu
```

Separately for the Associator and Data Storage extents, the table shows the device type where the unused blocks are located, the number of unused storage blocks and cylinders, and the range of unused block numbers.