

Release Bulletin Adaptive Server® Enterprise Version 12.5.1 for IPF/HP-UX

Document ID: DC20070-01-1251-01

Last revised: November 2003

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1. Accessing current release bulletin information

A more recent version of this release bulletin may be available on the Web. To check for critical product or document information added after the release of the product CD, use the Sybase Technical Library Product Manuals Web site.

- v **Accessing release bulletins at the Technical Library Product Manuals Web site**
 - 1 Go to Product Manuals at <http://www.sybase.com/support/manuals/>.
 - 2 Follow the links to the appropriate Sybase product.
 - 3 Select the Release Bulletins link.
 - 4 Select the Sybase product version from the Release Bulletins list.
 - 5 From the list of individual documents, select the link to the release bulletin for your platform. You can either download the PDF version or browse the document online.

2. Product summary

Enclosed is Sybase® Adaptive Server® Enterprise version 12.5.1. Server and client components are distributed on separate CDs.

For details on system requirements, including disk space and RAM, see the installation guide for your platform.

For more information specific to jConnect™ for JDBC™, jisql, and Ribo, see the jConnect documentation.

This release bulletin provides the latest information about Adaptive Server and its known problems, as well as documentation updates and clarifications.

2.1 Installation kit

The installation kit includes:

- The server CD – for contents list, see “Server components” on page 4.
- The PC-client CD – contains software client components to be installed on Windows NT, Windows 2000, XP Pro, and Windows 2003 computers.
- *Release Bulletin for Adaptive Server Enterprise Version 12.5.1 for HP-UX* (this document).
- *Installation Guide for Adaptive Server Enterprise 12.5.1 on HP-UX*.

2.2 Server components

The Server CD includes the following components:

- Adaptive Server 12.5.1
- Adaptive Server Enterprise Monitor™ Server 12.5.1
- Monitor Client Library 12.5.1
- Historical Server 12.5.1
- Software Developer's Kit (SDK) 12.5.1 ASE Edition which includes the following:
 - Open Client™ 12.5.1 ASE Edition
 - Embedded SQL™/C 12.5.1 ASE Edition
 - Embedded SQL/Cobol 12.5.1 ASE Edition
- Language Modules 12.5.1
- jConnect for JDBC 5.5
- Java utilities:
 - jisql 2.0
 - Ribo 2.0
- Sybase Central™ 4.x

2.3 PC-client components

The PC-client CD includes the following components, which can be installed on Windows:

- Software Development Kit (SDK) 12.5.1 ASE Edition, which includes the following:
 - Open Client 12.5.1 ASE Edition
 - Embedded SQL/C 12.5.1 ASE Edition
 - Embedded SQL/Cobol 12.5.1 ASE Edition
- Open Client Runtime 12.5.1
- ODBC 4.2
- OLE DB 2.7

- jConnect 5.5 and related documentation
- Java utilities:
 - jisql 2.0
 - Ribo 2.0
- InfoMaker® 9.0
- Language Modules 12.5.1
- XA Interface Library for ASE Distributed Data Manager 12.5.1
- Physical Architect™ 8.0
- SQL Remote 7.0.2
- Monitor Client Library 12.5.1
- PowerDesigner 9.5.2

Note Java Central is installed with PowerDynamo, not Adaptive Server. The only plug-in that comes with Adaptive Server is the Adaptive Server Enterprise plug-in for Sybase Central Java Edition 12.5.1.

2.4 Operating system updates

HP-UX 11.0 requires the following operating system patches to run Adaptive Server version 12.5 and later components, for both 32-bit and 64-bit versions. Table 1 shows the list of installed bundle patches.

Table 1: HP-UX installed bundle patches

| Patch | Level | Description |
|--------------|----------------|---|
| B3701AA | C.03.71.23 | HP GlancePlus/UX Pak for s800 11.23 |
| B3901BA | C.05.50 | HP C/ANSI C Developer's Bundle (S800) |
| B3913DB | C.05.50 | HP aC++ Compiler (S800) |
| B6834AA | B.01.03.01 | HP-UX Security Patch Check Tool |
| Base-VXVM | B.03.50.1A.003 | Base VERITAS Volume Manager Bundle 3.5 for HP-UX |
| FibrChan1-00 | B.11.23.01 | PCI FibreChannel;Supptd HW=A6795A,A5158A |
| GigEther-00 | B.11.23.01 | PCI GigEther;Supptd HW=A4926A/A4929A/A6096A;SW=J1642AA |
| GigEther-01 | B.11.23.01 | PCI GigEther;Supptd HW=A6825A/A6794A/A6847A/A8685A /A9782A/A9784A/A7109A |
| HPUX11i-TCOE | B.11.23 | HP-UX Technical Computing OE Component |

| Patch | Level | Description |
|-------------|---------------|---|
| HPUXBaseAux | B.11.23 | HP-UX Base OS Auxiliary |
| HPUXBaseOS | B.11.23 | HP-UX Base OS |
| IEther-00 | B.11.23.01 | PCI IEther;Supptd HW=A6974A |
| OnlineDiag | B.11.23.01.21 | HPUX 11.23 Support Tools Bundle, Jun 2003 |
| ParMgr | B.11.23.01.00 | Partition Manager - HP-UX |
| Sec00Tools | B.01.00.03 | Install-Time security infrastructure. |
| T1456AA | 1.4.1.03.01 | Java2 1.4 SDK for HP-UX |
| T1457AA | 1.4.1.03.01 | Java2 1.4 RTE for HP-UX |
| T1471AA | A.03.10.007 | HP-UX Secure Shell |
| USB-00 | B.11.23 | Object Oriented USB Driver |
| perl | D.5.8.0.A | Perl Programming Language |
| scsiU320-00 | B.11.23 | PCI SCSI U320; Supptd HW=CoreIO |

If your operating system requires patches, install them before you install Adaptive Server components.

To determine which patches have been installed on your system, see “Viewing installed patches,” next.

For a complete list of patches, contact your operating system representative. Do not use a patch that is earlier than the version suggested for your operating system. Use the patch recommended by the operating system vendor even if it supersedes the patch listed.

If you plan to use Sybase Failover in a high availability system, install all vendor-recommended operating system and high availability patches. For more information, contact your operating system and high availability vendors.

Viewing installed patches

To determine which patches have been installed on your system, enter:

```
/usr/sbin/swlist -l product | fgrep PH
```

To determine which Extension Pack bundle has been installed on your system, enter:

```
/usr/sbin/swlist -l bundle | fgrep `Extension Pack
```

3. Special installation instructions

This section provides information for installing Adaptive Server version 12.5 and later that is not included or should be corrected in the installation guide.

3.1 Known installation issues

This section describes known problems or issues that you may encounter during the installation process.

3.1.1 Installing with Developer's Edition licenses

After installation Adaptive Server on an Itanium platform, Adaptive Server runs under a Developer's Edition license. If you have purchased either the Small Business Edition (SBE) or Enterprise Edition of Adaptive Server, you should have received one or more paper certificates (Sybase Software Asset Management Certificate). For information about installing Adaptive Server with SySAM, see the Sybase Software Asset Management (SySAM) section of the Installation Guide.

3.1.2 InstallShield and inaccessible NFS mounted devices

[CR #334942] If you have an inaccessible NFS mounted device, InstallShield may hang while displaying:

```
Performace install checks. Please wait ...
```

If this happens, the console from which InstallShield was executed displays a message similar to:

```
NFS3 server <some server> not responding still trying
```

Workaround: kill InstallShield. Unmount the inaccessible NFS device. Retry the installation.

4. Special upgrade instructions

This section provides information for upgrading to Adaptive Server version 12.5.1 that is not included or should be corrected in the installation guide.

4.1 Adaptive Server 12.5.1 backward compatibility

Before using Adaptive Server 12.5.1 features, make sure you read the Technote "Adaptive Server 12.5.1 Backward Compatibility at the Sybase Web site at <http://www.sybse.com/support/techdocs>.

You can downgrade to earlier 12.5.x versions of Adaptive Server, but to do so you must take the precautions described in the technical note *before* using any of the new 12.5.1 features.

5. Product and platform interoperability

This section shows the interoperability of Adaptive Server, Replication Server, and Open Client/Server (OCS) products across versions. For specific platform or operating system level information, see the respective product certification reports at <http://www.sybase.com/>.

Table 2: Interoperability between Replication Server, Open Client/Server, and Adaptive Server

| Adaptive Server 12.5.1 | Adaptive Server 12.0 | Open Client/Server 12.5.1 | Open Client/Server 12.0 | Replication Server 12.6 | Replication Server 12.5 | Replication Server 12.1 |
|-------------------------------|-----------------------------|----------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Apple Mac OS X | N/A | X | N/A | X | N/A | N/A |
| HP Tru64 UNIX 5.x | X | X | X | X | X | X |
| HP HP-UX 11.x | X | X | X | X | X | X |
| IBM RS 6000 AIX 4.3.x | X | X | X | X | X | X |
| IBM RS 6000 5.1 | X | X | X | X | X | X |
| Red Hat Enterprise 2.1 | N/A | X | N/A | X | X | N/A |
| Silicon Graphics IRIX | N/A | X | N/A | X | X | N/A |
| Sun Solaris | X | X | X | X | X | X |
| Microsoft Windows | X | X | X | X | X | X |

Legend

- X = compatibility
- N/A = incompatibility, or the product is not available for that version/platform combination

Note 1 Open Client/Server 12.5.1 is currently scheduled for release in December 2003 and Replication Server 12.6 is currently scheduled for release in November 2003 (dates may be subject to change.)

Note 2 12.5.1 is a shelf-replacement for the 12.5 versions of Adaptive Server and Open Client/Server. Therefore, the 12.5 version of either product is compatible with 12.5.1, although Sybase strongly recommends that customers upgrade to 12.5.1 as soon as possible.

Note 3 Even though two or more products may be interoperable, features introduced in a newer version of a product are not likely to be supported with older versions of the same or other products.

For the latest interoperability report on these products, see the MySybase Web site at <http://my.sybase.com/detail?id=1026087>

6. New functionality in this version

This section describes changed functionality in Adaptive Server version 12.5.1 that is not included in the *What's New in Adaptive Server 12.5.1*.

6.1 *sysconfig* is not Section 508 compliant

sysconfig is not Section 508 compliant.

If you are unable to use *sysconfig*, see the *System Administration Guide* for alternative methods of configuring Adaptive Server.

6.2 PowerTransfer

PowerTransfer is an extension to PowerDesigner that allows the transfer of data into Adaptive Server. The source database can be any ODBC data source supported by PowerDesigner. PowerTransfer uses the Sybase bulk copy mechanism (bcp) for high-performance inserts into Adaptive Server.

7. Known problems

This section describes known problems and workarounds for Adaptive Server.

7.1 Sybase Central default character sets

[CR #340405]The default character set for the HP-UX platforms is `roman8`. However, the Java virtual machine does not support the `roman8` character set. You may receive an error message when using the Sybase Central plugin when connecting to Adaptive Server on HP-UX.

Workaround: Select Options from the Connect dialog and set the language to `iso_1` and reconnect to your server.

7.2 License manager

In HP-UX 11.23 the default value for the number of file descriptors is 2048 and is considered very high for the license manager daemon. There are two ways you can workaround this:

- Start the license manager daemon as the “root” user, or

- Use the `ulimit` to reset the file descriptors at a lower value such as 1024. For example:


```
#!/bin/sh
ulimit -H -n 1024
Imgrd [...]
```

The [...] is for the *Imgrd* arguments.

7.3 *alter table* and triggers with *if update()* clauses

[CR #199655] If a trigger contains an `if update()` clause, data modifications that should fire the trigger that are performed after executing `alter table add`, `alter table drop`, `alter table lock`, or `alter table modify` may cause errors in column references. Triggers on the altered table that use an `if update()` clause in the body of the trigger to reference a column may not fire, or may fire incorrectly.

Workaround: After the `alter table` operation has completed, drop and re-create all triggers on the altered table. Doing so causes the `if update()` clause in the triggers to correctly reference the new columns by their new column offsets, so the trigger code executes correctly.

7.4 Truncation error using *select* with *power()* function and numeric argument

[CR #236723] If you use the `select` command with the function `power()`, and use a numeric argument, the result is a truncation error.

Workaround: Convert the numeric argument to a float.

7.5 SQL derived tables cannot have unnamed columns

[CR #333873] SQL derived tables cannot have unnamed columns.

For example:

```
select * from (select sum(advance) from titles) d1
```

causes an error message.

Workaround: Rewrite the query using derived column list or the “AS” clause.

For example:

```
select * from (select sum(advance) from titles) d1(a1)
```

or:

```
select * from (select sum(advance) as a1 from titles) d1
```

7.6 Reconfiguring from utf8 with external sort order

[CR #333614] Before Adaptive Server version 12.5.1, the utf8 character set could be used only with the binary sort order. However, Adaptive Server release 12.5.1 supports non-binary sort orders with the utf8 character set.

If you use utf8 and then configure an external sort order (see Table 3), you cannot reconfigure Adaptive Server with another character set without first reverting to the binary sort order with utf8. After reverting to binary sort order (which has an ID of 50), you can then safely change to any other character set.

If you change the character set without first going to the binary sort order with utf8, recovery of the master database hangs and Adaptive Server displays error message 1569:

```
Unable to get a conversion handler for the built-in sort
function.
```

If this occurs, you must download and start Adaptive Server version 12.5.1 ESD #1 or later to successfully bring up a server (see the Sybase Web site at <http://www.sybase.com> for information about downloading Adaptive Server ESDs). Check with Sybase support for the availability of Adaptive Server version 12.5.1 ESD #1.

Alternatively, you can re-create the master device and load from database dumps.

Table 3 lists the external sort orders for utf8 and their IDs.

Table 3: External sort orders

| Sort order | Sort order ID |
|------------|---------------|
| big5bin | 194 |
| cp932bin | 192 |
| cyrdict | 140 |
| eucljlsbn | 192 |
| euckscbn | 161 |
| gb2312bn | 137 |
| gbpinyinbn | 163 |
| rusdict | 165 |
| sjisbin | 179 |

`$SYBASE/collate/unicode` also lists the sort orders and their IDs

7.7 InstallShield failure

[CR #333141] InstallShield may fail with the following error:

```
Running InstallShield Wizard...  
An unhandled error occurred -- specify system property  
"is.debug" for more information.
```

Workaround: This is due to the operating system's inability to handle file names greater than 32 characters and can be corrected with OS patches. For OS patch requirements, see the *Installation Guide for HP-UX*.

7.8 Queries containing a select statement with a group by statement

[CR #333077] Queries containing a select with a group by with a case expression using a local variable, may return wrong results.

Workaround: Remove the use of the local variable in group by.

7.9 sybmigrate error messages

[CR #332051] When evoking sybmigrate, warning messages display in the log.

Workaround: These messages are harmless and can be ignored.

7.10 Errors in queries with derived tables

[CR #329454] Incorrect results may be returned for a query having more than one derived table with group by aggregates in the derived table expression.

Workaround: Do not run these types of queries.

7.11 Starting dataserver manually or with RUN scripts causes Adaptive Server to hang

[CR #321184] Starting Adaptive Server manually or with the RUN scripts on 64-bit platforms causes Adaptive Server to hang.

Workaround: Set LD_LIBRARY_PATH to *\$\$SYBASE/OCS-12_5/lib3p64*.

7.12 SQL Advantage queries hanging

[CR #327303] Killing a server process associated with a SQL Advantage program does not notify the SQL Advantage client of the process termination. Subsequent queries issued by SQL Advantage hang.

Workaround: Do not kill server processes associated with a SQL Advantage program.

7.13 Views must have defined column names

[CR #314976] ANSI requirements specify that a view must have defined column names.

Workaround: You can suppress this requirement by using trace flag 1702.

7.14 Migrating between single-byte and multibyte charactersets

[CR #295842] sybmigrate does not support migration of data from single-byte (iso_1, roman8) to multibyte (utf8), even with -Jutf8.

Workaround: There is no workaround for this issue.

7.15 Migration of stored procedures

[CR #328131] sybmigrate does not migrate stored procedures that have a space character in their name, or belong to a procedure group.

Workaround: There is no workaround for this issue.

7.16 *cis connect timeout* and *enable SNMP* do not work

[CR #323177] Configuration parameters *cis connect timeout* and *enable SNMP* are not currently implemented.

Workaround: Do not use these configuration parameters.

7.17 XP Server returns incorrect results

[CR #280073] On all systems, using an extended stored procedure (ESP) with parameters may result in wrong data being send to XP Server. Because of this, XP Server may return incorrect results.

This happens when there is no parameter declaration list in the ESP, but one or more parameters are supplied at execution time. Before CR #280073, all parameters supplied at execution time were sent to the XP Server, causing incorrect results. CR #280073 fixes this problem by silently ignoring all parameters supplied at execution time when the parameter declaration list is empty.

This fix does not cause any behavior change when the parameter declaration list in the ESP matches the parameters supplied at execution time.

If you are using ESPs without a parameter declaration list, and you supply parameters at execution time, drop and re-create the ESP in Adaptive Server. Make sure the parameter declaration list in the ESP matches the parameter list supplied at execution time

You can use trace flag 523 to revert to pre-CR280073 behavior. This is a server-wide trace flag to be set when you restart Adaptive Server.

7.18 Network license daemon support

Problem: Adaptive Server version 12.5.1 has upgraded the SySAM daemons and libraries (FlexLM) to version 8. The SySAM daemons (lmgrd and SYBASE) are backward compatible, however the libraries are not. As a result, Adaptive Server 12.5.1 cannot check out licenses from earlier versions of the SySAM license daemons.

Workaround: Sites using the Network License Model should make sure that the central SySAM license daemons are upgraded first.

7.19 *bcp* and abstract data types

[CR #268302] Adaptive Server allows you to use *bcp in* to copy data containing Java objects, but it performs no load-time checking to ensure that the objects are consistent with the classes that are installed in the server. Any checking is delayed until the objects are actually accessed by an application. To be sure that all objects are compatible with their corresponding classes, Sybase recommends that you run a *select* query to access these objects on the server immediately after they have been copied. If there are any incompatibilities, they are reported via a Java serialization error (10707).

Workaround: There is no workaround for this issue.

7.20 Referencing Java data in a nonrecovered database

[CR #274071] Referencing Java data in a database that is not recovered or operational causes a “process (0xf000f) infected with 11” condition, which terminates the database connection.

Workaround: Verify that the database is recovered and available for use by issuing:

```
use database database_name
```

7.21 Using jConnect and Adaptive Server

If you are using jConnect with Adaptive Server on HP, the server’s default character set cannot be roman8. There is no corresponding Java character set converter for roman8 and jConnect cannot connect to the Adaptive Server. A good alternative is to set Adaptive Server default character set to iso_1.

7.22 Configuring connectivity for clients accessing wide data

[CR #271822] If you are using wide data (that is, data other than text and image that is greater than 255 bytes), and you are using the bulk library APIs, make sure you configure the connectivity capability for wide data. Failure to do so may result in memory corruption.

7.23 Handling multibyte character sets during migration

[CR #271839] If you configure multibyte character sets after migrating data from system catalogs `sysattributes` and `sysxtypes`, the text columns in these catalogs are inconsistent with the multibyte character sets.

Workaround: Manually run `dbcc fix_text` on `sysattributes` and `sysxtypes`, to make the text columns consistent with the multibyte character sets.

7.24 Adaptive Server plug-in default character set and language

[CR #270906] The Adaptive Server plug-in default character set is `iso_1`, and the default language is `us_english`. If you are running an Adaptive Server that is using a different language or character set, you may encounter compatibility problems.

Workaround: Set the character set and language values in the Adaptive Server plug-in Connect dialog, so that they correspond to the configuration of the Adaptive Server.

7.25 Dynamic and host variables not allowed in DDL statements

[CR #234217] Dynamic and host variables in create view statements were allowed in earlier versions, but worked incorrectly when:

- create view statements were replicated, or
- Views containing dynamic and host variables were upgraded from text in the syscomments table.

Dynamic and host variables are no longer allowed in create view statements.

Workaround: To allow dynamic and host variables with this incorrect behavior in create view statements, start Adaptive Server with trace flag 108:

```
dataserver -dd_master -T108
```

8. Product compatibilities

This section lists the Sybase components that are compatible with Adaptive Server Enterprise version 12.5 and later. For information about operating system requirements, see individual component documentation.

The following components have been tested for compatibility with Adaptive Server 12.5 and later:

- Sybase Character Sets 3.0
- Sybase Central viewer 4.x
- jConnect for JDBC 4.5
- jConnect for JDBC 5.5
- Open Server™ 12.5
- SDK 12.5
- Open ServerConnect™ (CICS, IMS/MVS) 4.0
- Open ClientConnect™ (CICS, IMS/MVS) 4.0
- ODBC Driver for Adaptive Server 12.5

- OLE DB Provider for Adaptive Server 12.5

Note Backup Server 12.5 is compatible with Backup Server 11.9.2.1 and 12.0. Either server can be local or remote. Backup Server 12.5 is compatible with versions of Backup Server earlier than 11.9.2.1 *only* if the Backup Server 12.5 is the remote server.

9. Documentation updates and clarifications

This section describes changes and additions to the Adaptive Server version 12.5.1 documentation set.

9.1 Utility Guide

9.1.1 *dataserver* clarification

In the *dataserver* reference page in the *Utility Guide*, Example 2 is incorrect. It currently reads:

Example 2 rewrites a corrupt model database:

```
dataserver -d my_master_device -w model
```

The correct example is:

Example 2 rewrites a corrupt model database:

```
dataserver -d d_master -w model -s server_name
```

9.1.2 *ddlgen* update

The existing description of the `-S` parameter in *ddlgen* is:

- `-Shost_name : port_number`

specifies the host name or IP address of Adaptive Server, as well as its port number. Separate *host_name* and *port_number* with a colon, without spaces before or after it.

Note You must use the `-S` option because *ddlgen* does not connect to a default server.

The updated description is as follows:

- `-Sserver` – specifies the name of the Adaptive Server. `ddlgen` looks this name up in the interfaces file or LDAP configuration file. If you specify:
 - `-S [host_name:port_number]` – `ddlgen` uses the *host_name* and *port_number* provided, and neither interfaces nor LDAP configuration files are read or parsed.
 - `-S[server] -l` – `ddlgen` parses the interfaces file specified at the user location for the server name (see the `-l` parameter description for more information).
 - `-S[server]` – without specifying an interfaces file, `ddlgen`:
 - 1 Tries to read the LDAP configuration file from the standard location.
 - 2 If the LDAP file does not exist, or exists but does not contain an Adaptive Server entry, then the interfaces file is parsed at its standard location for the server name.
 - 3 If the LDAP file exists, then `ddlgen` uses it to search the server name. The interfaces file is not parsed, and the LDAP configuration file is parsed.

Separate *host_name* and *port_number* with a colon, without spaces before or after it.

Note You must use the `-S` option because `ddlgen` does not connect to a default server.

- `-l` – specifies the interfaces file name, and corresponds to `$$SYBASE/interfaces` for UNIX, and `$$SYBASE%\ini\sql.ini` for Windows. Use this optional parameter with `-S`.

9.1.3 Omission from *sybmigrate*

The following information was omitted from the “*symigrate*” Chapter, in the *Utility Guide*.

`sybmigrate` requires allow resource limits to be set to 0.

Note If metadata already exists on the target Adaptive Server, you cannot migrate server data.

SYBASE_JRE – defines the location of the Java runtime environment. This is generally set to `$SYBASE/shared-1_0/jre-1_3` in the Adaptive Server release area. This environment variable overrides `JAVA_HOME`.

SYBASE_JRE defaults to `$SYBASE/shared-1_0/jre-1_3`.

9.1.4 Utilities moved

The following three utilities have moved from `$SYBASE/$SYBASE_ASE/bin` to `$SYBASE/$SYBASE_OCS/bin`:

- `certauth`
- `certpk12`
- `certreq`

9.1.5 *bcp* clarification

In the section “*bcp* modes” in Chapter 3, “Using *bcp* to Transfer Data to and from Adaptive Server” in the *Utility Guide*, the definitions of *bcp* in were reversed and incorrectly stated as:

bcp in works in one of two modes:

- Fast *bcp* – logs each row insert that it makes, used for tables that have one or more indexes or triggers.
- Slow *bcp* – logs only page allocations, copying data into tables without indexes or triggers at the fastest speed possible.

The correct definitions are as follows:

bcp in works in one of two modes:

- Slow *bcp* – logs each row insert that it makes, used for tables that have one or more indexes or triggers.
- Fast *bcp* – logs only page allocations, copying data into tables without indexes or triggers at the fastest speed possible.

9.2 Transact-SQL User’s Guide

In “Sorting Query results” in Chapter 3, the word “aggregates” has been dropped from this sentence:

“Adaptive Server does not allow subqueries, variables and constant expressions in the order by list.” A successful example in the following section, order by and group by, uses the aggregate function avg(price) in an order by clause:

```
order by avg(price)
```

9.3 Reference Manual: Building Blocks

9.3.1 @@version_as_integer update

In Chapter 3, “Global Variables” in *Reference Manual: Building Blocks*, the definition for @@version_as_integer states:

“Returns the version of the current release of Adaptive Server as an integer.”

This information should read:

“Returns the number of the last upgrade version of the current release of Adaptive Server as an integer. For example, @@version_as_integer returns 12500 if you are running Adaptive Server version 12.5, 12.5.0.3, or 12.5.1.”

9.3.2 set_appcontext update

In the reference page for set_appcontext in Chapter 2, “Transact-SQL Functions” in *Reference Manual: Building Blocks*, the parameter for attribute_value is incorrectly stated as being a char(2048). The correct datatype is char(30), and should appear as follows:

attribute_value – is a row that specifies an application attribute value. It is saved as the datatype char(30).

9.4 Reference Manual: Commands

9.4.1 dbcc check parameter

The following description of the dbcc check command should be included in *Reference Manual: Commands*.

```
Syntax          dbcc upgrade_object( {dbid | dbname},
                  { compiled_object_name |
                  "view" | "procedure" | "default" |
                  "rule" | "default" | "trigger" },
                  [ "force" | "check" ] )
```

| | |
|----------------------|--|
| Keywords and options | check – checks syntax for the specified <i>compiled_object</i> in syscomments in the specified database. Does not raise errors on occurrences of select. |
| Comments | <ul style="list-style-type: none">• check is used to detect syscomments text corruption which was caused by Adaptive Server defects that occurred before the upgrade. This syscomments text corruption is serious because it causes upgrade to fail.• If any error is reported by dbcc <i>upgrade_object</i> with check option, you must drop and re-create the <i>compiled_object</i>. |

9.4.2 create index clarification

The create index reference page in Chapter 1, “Commands” of *Reference Manual: Commands* incorrectly states that the `max_rows_per_page` and `fillfactor` parameters are exclusive.

“`max_rows_per_page` – `max_rows_per_page` and `fillfactor` are mutually exclusive. Unlike `fillfactor`, the `max_rows_per_page` value is maintained until it is changed with `sp_chgattribute`.”

It should read:

`max_rows_per_page` – limits the number of rows on data pages and the leaf level pages of indexes. Unlike `fillfactor`, the `max_rows_per_page` value is maintained until it is changed with `sp_chgattribute`.

9.4.3 bcp reference page clarification

In the bcp reference page in Chapter 8, “Utility Commands Reference” of the *Reference Manual: Commands*, the description of the `-b batchsize` parameter has been clarified. It used to read:

“`-b batchsize` is the number of rows per batch of data copied (default is to copy all the rows in one batch).”

The text now reads:

“`-b batchsize` is the number of rows per batch of data copied. By default, bcp in copies `n` rows in one batch, where `n` is equal to the batch size.”

9.4.4 set command option *explicit_transaction_require* not supported

The set command option `explicit_transaction_require` is not currently supported, and should not appear in the *Adaptive Server Reference Guide* version 12.5.1.

9.4.5 New *set* parameters *proc_output_params* and *set proc_return_status*

The following new parameters should be included in the *set* command reference section of *Reference Manual: Commands*.

Parameters

- *proc_output_params* – controls sending of output parameters that a stored procedure generates back to the client. *set proc_output_params off* suppresses sending the output parameters back to the client. The default for this parameter is on.
- *proc_return_status* – controls sending of a return status TDS token back to the client. *set proc_return_status off* suppresses sending the return status token to the client, and isql client does not display the (*return status = 0*) message. The default for this parameter is on.

Warning! If the client application that executes a procedure relies on the success or failure of the procedure based on the return status, then do not use the *set proc_return_status off* option.

Example 1

Suppresses the output of both parameters and the return status TDS token:

```
1> set proc_output_params OFF
2> go

1> set proc_return_status OFF
2> go

1> declare @x int
2> select @x = 2
3> exec sp_pout @x output
4> print "Value of @x returned from sproc is: %1!", @x
5> go

(1 row affected)
Value of @x returned from sproc is: 3
(1 row affected)
```

In addition, you can also suppress the lines reporting the number of rows affected to generate output with no extra messages using the *set nocount on* option before running this batch.

Example 2

Suppresses the output of parameter information:

```
1> create procedure sp_pout (@x int output) as select @x = @x + 1
2> go

1> set proc_output_params off
2> go

1> declare @x int
2> select @x = 1
3> exec sp_pout @x output
4> print "Value of @x returned from sproc is: %1!", @x
5> go
(1 row affected)
(return status = 0)
Value of @x returned from sproc is: 2
```

If you do not perform set proc_output_params off, the output after (return status = 0) includes the following:

Return parameters:

```
-----
                2
```

9.5 System Administration Guide

[CR #322843] In the *System Administration Guide*, Chapter 12, “Auditing,” Table 12-6, Values in event and extrainfo columns, is incomplete.

Table 12-6 should include these lines for the create index entry under:

“Other Information: Index name”

[CR #331120] In the *System Administration Guide*, Chapter 26, “Checking Database Consistency,” some size information is incorrect in the “Creating the dbccdb database” procedure. The procedure should read:

```
* In step 1, output:
Recommended size for dbccdb is 23MB (data = 21MB, log
= 2MB)
* In step 3, user input:
...
size = "4096"
...
size="1024"
* In step 7 user input:
```

```
use dbccdb|
go|
sp_dbcc_createews dbccdb, scanseg, scan_pubs2, scan,
"64K"|
sp_dbccvcreateews dbccdb, textseg, text_pubs2, text,
"64K"|
```

9.6 Performance and Tuning Guide

9.6.1 OAM - scans on DOL tables

OAM - pages are used when performing a table scan on a DOL-table. These OAM-pages refer to allocation-units, which must then be scanned to find the extents on the pages for the table being scanned. When the scan is started, a list of pages is generated the information in the allocation-page. Any newly allocated pages produced by another process in this allocation-unit are not seen by the scanning process as they were not allocated when the scan began. This is due to the way DOL-tables are implemented. If you want to include the newly allocated pages,

- use isolation level 3 type of scans (select with holdlock) or,
- add an index to the DOL-table which can be used to prevent a table-scan or,
- convert the DOL-table to an APL-table.

9.6.2 Multiple temp databases

The information on multiple tempdbs was inadvertently included in the *Performance and Tuning Guide*. This information should be in the *System Administration Guide* and will be moved there on the next update.

Login bindings to multiple tempdbs

In prior versions only a user with the “sa” role could be bound to a tempdb.

As of this version of Adaptive Server, any user can also be bound to an application at the time of login. For example:

If there is a binding for login “user1” and for application isql, when "user1" logs in with application isql the “user1” binding determines the tempdb assigned to the session, not the isql binding.

10. Technical support

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you have any questions about this installation or if you need assistance during the installation process, ask the designated person to contact Sybase Technical Support or the Sybase subsidiary in your area.

11. Other sources of information

Use the Sybase Getting Started CD, the Sybase Technical Library CD and the Technical Library Product Manuals Web site to learn more about your product:

- The Getting Started CD contains release bulletins and installation guides in PDF format, and may also contain other documents or updated information not included on the Technical Library CD. It is included with your software. To read or print documents on the Getting Started CD you need Adobe Acrobat Reader (downloadable at no charge from the Adobe Web site, using a link provided on the CD).
- The Technical Library CD contains product manuals and is included with your software. The DynaText reader (included on the Technical Library CD) allows you to access technical information about your product in an easy-to-use format.

Refer to the *Technical Library Installation Guide* in your documentation package for instructions on installing and starting the Technical Library.

- The Technical Library Product Manuals Web site is an HTML version of the Technical Library CD that you can access using a standard Web browser. In addition to product manuals, you will find links to EBFs/Updates, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

To access the Technical Library Product Manuals Web site, go to Product Manuals at <http://www.sybase.com/support/manuals/>.

11.1 Sybase certifications on the Web

Technical documentation at the Sybase Web site is updated frequently.

v **Finding the latest information on product certifications**

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.

- 2 Select Products from the navigation bar on the left.
- 3 Select a product name from the product list and click Go.
- 4 Select the Certification Report filter, specify a time frame, and click Go.
- 5 Click a Certification Report title to display the report.

v **Creating a personalized view of the Sybase Web site (including support pages)**

Set up a MySybase profile. MySybase is a free service that allows you to create a personalized view of Sybase Web pages.

- 1 Point your Web browser to Technical Documents at <http://www.sybase.com/support/techdocs/>.
- 2 Click MySybase and create a MySybase profile.

11.2 Sybase EBFs and software maintenance

v **Finding the latest information on EBFs and software maintenance**

- 1 Point your Web browser to the Sybase Support Page at <http://www.sybase.com/support>.
- 2 Select EBFs/Maintenance. Enter user name and password information, if prompted (for existing Web accounts) or create a new account (a free service).
- 3 Select a product.
- 4 Specify a time frame and click Go.
- 5 Click the Info icon to display the EBF/Maintenance report, or click the product description to download the software.