

Red Box release 3 — notice 4

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**Service Pack 2
for
NT servers**

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Contents of Service Pack 2

Red Box 3 Service Pack 2 provides two system maintenance procedures for use on Red Box NT servers:

- ucrbospace** – which monitors the free space available in the Red Box database.
- ucrbextend** – which extends the database by adding a new data file.

Instructions for using the procedures are given below.

To apply the service pack

Service Pack 2 is for NT server systems which are installed with the Red Box 3 server software. You can apply the service pack with or without the Red Box server software running.

1. Download the Service Pack 2 setup program from the [File Area for Red Box 3.0](#) on Ultracomp's website. You can save the program to any directory.

The setup program name is **rb300sp2setup.exe** and the file size is 187 Kbytes. The program requires 150 Kbytes disk space to run.

2. On the NT server, log in under the **rboxsw** user.
3. Run the setup program, following the on-screen instructions.

For technical support

If you have problems with the service pack, please contact the Fox Group Ultracomp Support Centre:

Telephone: +44 (0) 118 973 3456

E-mail: support@ultracomp.co.uk

Instructions for use

The following sections describe when to use **ucrbospace** and **ucrbextend** and how to run the procedures. The same instructions are in edition 3 of the *Red Box Server Administration (NT Systems)* guide (chapter 7). You can view or download this guide from the [File Area for Red Box 3.0](#) on Ultracomp's website.

Background

As the use of Red Box extends within your organisation and you add new Red Box facilities, the database will grow in size beyond your original expectations. For this reason, you should monitor the size and usage of the database tablespaces. The database files that support each tablespace have a fixed file size, but you can increase the size of a tablespace by adding a file.

Tablespaces that may need to extend

The Oracle7 tablespaces are:

admdata
admindex
rbs
system
temp
usrdata
usrindex

admdata and **admindex** will not grow in size, so you will not need to extend them.

system, **temp** and **rbs** may need extending because they are affected by your use of the Red Box system.

usrdata and **usrindex** increase when Red Box creates records and indexes for records. When there are no more free blocks in a tablespace, a table or index cannot increase, and users will get "Failure to extend" errors when they try to create new records.

Monitoring free space (ucrbSPACE)

Use **ucrbSPACE** to monitor free space. This command is quick to run and reports the free and used space in each tablespace. By running the command regularly you can monitor the growth rate of the **usrdata** and **usrindex** tablespaces, and extend these before users get "Failure to extend" errors. If a Red Box user does get a "Failure to extend" message when inserting a record, run **ucrbSPACE** to check which **tableSPACE** is full, prior to running **ucrbextend**.

To run **ucrbSPACE**

1. Oracle must be running.
2. Log in as **rboxsw**.
3. At the command prompt, enter **ucrbSPACE**.

Output from ucrbspace

ucrbpace displays two lists which it also writes to the file **space.lst** in the directory in which it is run.

List 1 lists the database tablespaces, the files that hold them and the file sizes in 4 Kbyte blocks and in Mbytes.

List 2 shows for each tablespace:

Total - the size in Mbytes of the tablespace.

Free - the number of Mbytes free.

Used - the number of Mbytes used.

Example list 1 displayed by ucrbpace

Tablespace	File Name	Blocks (4096)	Size
ADMDATA	C:\UCRB\DATABASE\ADMDATA01.DBF	8,960	35 Mb
ADMINDEX	C:\UCRB\DATABASE\ADMINDEX01.DBF	1,280	5 Mb
RBS	C:\UCRB\DATABASE\RBS01.DBF	10,240	40 Mb
SYSTEM	C:\UCRB\DATABASE\SYSTEM01.DBF	5,120	20 Mb
TEMP	C:\UCRB\DATABASE\TEMP01.DBF	12,800	50 Mb
USRDATA	C:\UCRB\DATABASE\USRDATA01.DBF	12,800	50 Mb
USRINDEX	C:\UCRB\DATABASE\USRINDEX01.DBF	12,800	50 Mb

Example list 2 displayed by ucrbpace

Tablespace	Files	Fragments	Total	Free	Used
ADMDATA	1	1	35 Mb	13.18 Mb	21.82 Mb
ADMINDEX	1	1	5 Mb	2.83 Mb	2.17 Mb
RBS	1	1	40 Mb	3.67 Mb	36.33 Mb
SYSTEM	1	1	20 Mb	5.07 Mb	14.93 Mb
TEMP	1	1	50 Mb	49.88 Mb	124.00 Kb
USRDATA	1	1	50 Mb	42.69 Mb	7.31 Mb
USRINDEX	1	1	50 Mb	21.81 Mb	28.19 Mb

Depending on the size of each new record, many new records may be created before the “Used” value for **usrdata** and **usrindex** increases and the “Free” value decreases.

Extending a tablespace (**ucrbextend**)

Run **ucrbextend** when **ucrbspace** indicates tablespaces that have no free space. The command adds a new data file for a named database tablespace. You can place the new file in a different directory, but take care with file placement to maintain balanced disk utilisation.

To run **ucrbextend**

1. Oracle must be running.
2. Log in as **rboxsw**.
3. At the command prompt, enter **ucrbextend**.

Output from **ucrbextend**

First, **ucrbextend** lists the current data files and file sizes in each of the Oracle7 tablespaces.

*Oracle7 tablespaces files listed by **ucrbextend***

Tablespace	Full File Name	File Size
admdata	C:\UCRB\DATABASE\ADMDATA01.DBF	35 Mb
admindex	C:\UCRB\DATABASE\ADMINDEX01.DBF	5 Mb
rbs	C:\UCRB\DATABASE\RBS01.DBF	40 Mb
system	C:\UCRB\DATABASE\SYSTEM01.DBF	20 Mb
temp	C:\UCRB\DATABASE\TEMP01.DBF	50 Mb
usrdata	C:\UCRB\DATABASE\USRDATA01.DBF	50 Mb
usrindex	C:\UCRB\DATABASE\USRINDEX01.DBF	50 Mb

ucrbextend then displays the following prompts. Where it displays a default, example values are shown in brackets below. Press <Return> without making an entry to select a default value.

Tablespace Name :

Enter the name of the tablespace to be extended, as listed in the table above. For example, to extend tablespace **usrdata**, enter **usrdata**.

Directory Name (Default C:\UCRB\DATABASE) :

Enter the directory name for the data file to be created. The directory must exist with 'write' permissions. By default, **ucrbextend** creates it in the same directory as the last file for the tablespace. You can choose a different file system and/or directory.

Data File Name (Default USRDATA02.DBF) :

Enter the file name of the new data file to be created. By default, **ucrbextend** adds one to the last filename.

Data File Size in Mb (Default 50) :

Enter the size (in megabytes) of the new data file. Having created the new data file, **ucrbextend** displays a confirmation message. For example:

```
ALTER TABLESPACE USRDATA ADD DATAFILE 'C:\UCRB\DATABASE\USRDATA02.DBF' SIZE 50M
```