
NAME

mrcallrm - remove calls from a trace file

SYNOPSIS

mrcallrm [**--buffered**] [**--comment** or **-c**] [**--eula**] [**--help** or **-?**] [**--initrc**] [**--inplace=extension** or **-iextension**] [**--lines=range_list** or **-l range_list**] [**--listrc**] [**--man**] [**--rc=file**] [**--thinktime=float** or **--z=float**] [**--timunit=float**] [**--version**] [*file...*]

DESCRIPTION

mrcallrm reads Oracle extended SQL trace data from the named *file(s)* and sets the call duration to zero on each input line that qualifies for removal. A line qualifies for removal as defined by the following mutually exclusive rules:

- The line represents a 'SQL*Net message from client' call with an elapsed duration greater than or equal to the threshold specified by the **--thinktime** option.
- The line number matches one of the lines specified with the **--lines** option,

It also subtracts the proper duration from *tim* values on the call's line and subsequent lines, as well as on timestamp lines. **mrcallrm** converts datestamps from an Oracle format like "2008-04-01 08:09:10.123" to the ISO 8601 format "2008-04-01T08:09:10.123000+0000".

The tool can automatically uncompress files compressed properly with **gzip**, **bzip2**, or **zip**.

OPTIONS

--buffered

If true, then only buffered writes are used. If false, then only unbuffered writes are used. This applies to all writable file handles: stdout, stderr, and filesystem files. Default is **--buffered**.

--comment or **-c**

Display the original line with a comment prefix ("# ") on the line prior to each updated line in the output. Default is **--nocomment**.

--eula

Display the license information and exit.

--help or **-?**

Display usage information and exit.

--initrc

Use **--noinitrc** to prevent **mrcallrm** from opening the default rc files in your home directory or current working directory (see *ENVIRONMENT*). The default value is **--initrc**. Use **--noinitrc** if you don't want to run the default rc files.

--inplace=extension or **-iextension**

Edit files specified on the command line in place, by renaming the input file and writing output to the file with the original name. The extension is used to modify the name of the old file to make a backup copy, as follows:

- If an empty extension is supplied with **-i** and your system supports it, the original file is kept open without a name while the output is redirected to a new file with the original filename. When **mrcallrm** exits, cleanly or not, the original file is unlinked.
- If the extension doesn't contain a *, then it is appended to the end of the current filename as a suffix. If the extension does contain one or more * characters, then each * is replaced with the current filename.

Note that it can be tricky to specify an empty *extension* value to **--inplace** or **-i**. If you specify **--inplace** with no *extension* followed by a file name, then **mrcallrm** will interpret the file name

as the *extension* and appear to hang, because now it is waiting on STDIN for input. Thus, if you specify your option values before your file name, then you must explicitly specify the empty extension value with "" or "". To avoid this complication, just specify your option values after your file name. The following commands are equivalent:

```
mrcallrm --inplace='' file.trc
mrcallrm -i '' file.trc
mrcallrm file.trc --inplace
mrcallrm file.trc -i
```

--lines=range_list or **-l range_list**

Reset call durations to 0 on lines specified in *range_list*. The list must consist of non-negative integers (like "42"), closed ranges of non-negative integers (like "42..52"), or open ranges of non-negative integers (like ".42" or "42."), separated by commas. For example, **--lines=..5,8,10..12,1000..** is a valid line range specification. You may use either "." or "-" interchangeably as a range operator. Ranges may be listed in any order. Specifying an invalid *range_list* (like **--lines=a,1-5**) will cause **mrcallrm** to die.

The **--lines** and **--thinktime** options are mutually exclusive. Setting **--lines** causes any previous setting of **--thinktime** to be unset.

--listrc

List rc filenames and exit. The default value is **--nolistrc**.

--man

Print the **mrcallrm** manual page and exit.

--rc=file

Process command line options listed in *file*. See the **mrskew** manual page for details.

--thinktime=float or **--z=float**

Set the think-time threshold for 'SQL*Net message from client' call removal. For example, the default value **--thinktime=1** means to regard any 'SQL*Net message from client' call whose duration is 1.0 seconds or more to be a think time call to be eliminated.

The **--thinktime** and **--lines** options are mutually exclusive. Setting **--thinktime** causes any previous setting of **--lines** to be unset.

--timunit=float

Regard and *ela* field values in the raw trace file as being expressed in time units of *float* seconds. The default value is **--timunit=0.000_001**. Consider using the following values:

value	Oracle versions
0.01	prior to 9
0.000_001	9 and beyond
0.000_001_024	9.0 through 11.2.0.1 for certain platforms

On some platforms, the Oracle kernel converts nanoseconds (obtained from the OS) to microseconds (displayed in the trace output) by using a 10-bit right-shift operator instead of dividing by 1,000. It takes a little bit of sophisticated testing to determine whether your platform does this. However, if it does, then using **--timunit=0.000_001_024** will give you more accurate output.

--version

Display the program version number and exit.

.RC FILES

A .rc file allows you to change the default behavior of a Method R Tools program. For example:

```
$ cat ~/.mrcallrm.rc
--comment
--inplace=.bak
```

See the **mrskew** manual page for details.

EXAMPLES

This command will remove all 'SQL*Net message from client' calls whose duration is 1.0 seconds or greater, and write the content to another file:

```
mrcallrm ora_1492.trc > ora_1492-1.trc
```

This command will remove the call on line 7 of the input trace file and write the content to another file:

```
mrcallrm --lines=7 ora_1492.trc > ora_1492-1.trc
```

This command will remove the calls on lines 1 through 42:

```
mrcallrm --lines=..42 ora_1492.trc > ora_1492-2.trc
```

This command will remove the calls on lines 1 through 42, 1000, and 2000 through the end of the file:

```
mrcallrm --lines=..42,1000,2000.. ora_1492.trc > ora_1492-3.trc
```

This command will remove all 'SQL*Net message from client' calls whose duration is .5 seconds or greater, and do the edit in place, creating a backup of the original trace file with a ".bak" extension:

```
mrcallrm ora_1492.trc -z.5 -i.bak
```

DIAGNOSTICS

Exit status is 0 on successful completion, and >0 if an error occurs.

ENVIRONMENT

.mrcallrm.rc

By default, **mrcallrm** will execute the options listed in the following files, in the following order, before the options you actually list on your command line:

```
~/.mrcallrm.rc
./mrcallrm.rc
```

If you do not wish to execute the options in these files, then specify **--norc** on the command line.

MRTOOLS_RCPATH

See the **mrskew** manual page for details.

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SUPPORT

mrcallrm version 8.0.5.0

Contact <support@method-r.com> at Method R Corporation for support, or visit <http://method-r.com> for more information.

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