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## Performance Problems - Concurrent Programs

You've noticed that a particular program is taking, on average, two hours to run. You can turn trace on for this report by logging in with the System Administrator responsibility, and navigating to

Concurrent – Program – Define

- Query up your report. Click on the “Enable Trace” button

The screenshot shows the 'Concurrent Programs' window in Oracle E-Business Suite. The window title is 'Concurrent Programs'. The main form is for defining a concurrent program. The 'Program' field is 'Active Users' and is checked as 'Enabled'. The 'Short Name' is 'FNDESCURS', the 'Application' is 'Application Object Library', and the 'Description' is 'User Responsibility Report'. The 'Executable' section shows 'Name' as 'FNDESCURS' and 'Method' as 'Oracle Reports'. The 'Request' section has 'Type', 'Incrementor', and 'MLS Function' fields. The 'Output' section shows 'Format' as 'XML', 'Save (C)' and 'Print' checked, 'Columns' as 132, 'Rows' as 45, 'Style' as 'Landscape', and 'Printer' as an empty field. There are also checkboxes for 'Use in SRS', 'Run Alone', 'Enable Trace', 'Allow Disabled Values', 'Restart on System Failure', and 'NLS Compliant'. At the bottom, there are buttons for 'Copy to...', 'Session Control', 'Incompatibilities', and 'Parameters'.

Program	Active Users	<input checked="" type="checkbox"/> Enabled
Short Name	FNDESCURS	
Application	Application Object Library	
Description	User Responsibility Report	
Executable		
Name	FNDESCURS	Options
Method	Oracle Reports	Priority
Request		
Type		
Incrementor		
MLS Function		
<input checked="" type="checkbox"/> Use in SRS	<input checked="" type="checkbox"/> Allow Disabled Values	
<input type="checkbox"/> Run Alone	<input checked="" type="checkbox"/> Restart on System Failure	
<input checked="" type="checkbox"/> Enable Trace	<input checked="" type="checkbox"/> NLS Compliant	
Output		
Format	XML	
<input checked="" type="checkbox"/> Save (C)		
<input checked="" type="checkbox"/> Print		
Columns	132	
Rows	45	
Style	Landscape	
<input type="checkbox"/> Style Required		
Printer		

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## Turn On Tracing

Responsibility: System Administrator  
Navigate: Profiles > System  
Query Profile Option Concurrent: Allow Debugging  
Set profile to Yes

## Run Concurrent Program With Tracing Turned On

Logon to the Responsibility that runs the Concurrent Program  
In the Submit Request Screen click on Debug Options (B)  
Select the Checkbox for SQL Trace

Submit Request

Run this Request...

Name: Active Users

Operating Unit:

Parameters:

Language: American English

Language Settings... Debug Options

At these Times...

Run the Job: As Soon as Possible

Schedule...

Upon Completion...

Save all Output Files

Layout:

Notify:

Print to: noprint

Options...

Help (C) Submit Cancel

Click Debug Options

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Create Debug Rule : Debug Option

Component Type: **Concurrent Program**      Component Instance: **Active Users**

Cancel    OK

**Debug Options**

Select a debug option and specify an option value. Select atleast one debug option.

Select All | Select None

Select Debug Option	Debug Option Value
<input type="checkbox"/> Logging	Statement
<input type="checkbox"/> PL/SQL Profiler	PL/SQL Profiler
<input checked="" type="checkbox"/> SQL Trace	SQL Trace with Binds and Waits
<input type="checkbox"/> Reports Trace	Log all possible trace information

Cancel    OK

## 2. TKPROF Trace File

Once you have obtained the Raw trace file you need to format the file using TKPROF.

```
$tkprof raw_trace_file.trc output_file explain=apps/apps  
sort=(exeela,fchela) sys=no
```

### **Where :**

raw\_trace\_file.trc: Name of trace file  
output\_file:            tkprof out file  
explain:                This option provides the explain plan for the sql  
                          statements  
sort:                    This provides the sort criteria in which all sql  
                          statements will be sorted. This will bring the bad  
sql at  
                          the top of the outputfile.  
sys=no:                 Disables sql statements issued by user SYS

Another example: To get (TKPROF) sorted by longest running queries first and limits the results to the "Top 10" long running queries

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```
$ tkprof <filename.trc> <output_filename> sys=no explain=apps/<password>  
> sort='(prsela,exeela,fchela)' print=10
```

Now every time this report runs, until you turn trace off, it will generate a trace file. We strongly recommend that you trace Concurrent Programs on your test environment rather than your production environment, because anytime anyone runs this report, it will generate a trace file. At the very least, if you run trace on your production environment, don't forget to turn it back off after you're done!

```
cd $ORACLE_HOME/admin/<CONTEXT_NAME>/udump  
run tkprof
```

```
tkprof filename.trc filename.prf explain=apps/<apps_pwd>  
sys=no sort='(prsela,exeela,fchela)' print=10  
or
```

To run Trace Analyzer:

```
sqlplus apps/<apps_pwd>
```

```
SQL> START TRCANLZR.sql UDUMP vis_ora_1234.trc;
```

More options:

1. Login to Oracle Applications and select System Administrator responsibility.
2. Navigate to the Concurrent Program definition form.  
Concurrent -> Program -> Define
3. Query the concurrent program ARBRFRRT
4. Enter your trace Options in the Options Field of the Executable Section using the below format and save the changes:  
TRACEOPTS=<option>TRACEFILE=<filename>  
TRACEMODE=<TRACE\_APPEND | TRACE\_REPLACE>  
Example :  
TRACEOPTS=TRACE\_ALL TRACEFILE=c:\Temp\SMtrace.trc

Note : TRACEOPTS can only be used for Oracle Reports type concurrent programs as it is an execution option to an Oracle Reports Runtime executable

It will help if you can also enable Binds for the purposes of this SR.

If you wish you can enable binds, waits, and additional tracing options by entering your Trace Options in the Options Field of the Executable Section

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n. List of values that can be used for TRACEOPTS :

Option Description

TRACE\_ERR list error messages and warnings

TRACE\_TMS enter a timestamp for each entry

TRACE\_SQL log trace information on all of the SQL

TRACE\_PRF log performance statistics

TRACE\_PLS log trace information on all PL/SQL objects

TRACE\_DST creates a log containing the distribution lists involved. Available from Reports 6.0 and up.

TRACE\_APP log trace information on all of the report objects

TRACE\_ALL log all possible trace information

Reference: **How To Trace a Concurrent Request And Generate TKPROF File - 453527.1**