

Debug commands

Enable Voximal module traces

Execute :

```
CLI> voximal debug
```

Enable Voximal interpreter traces

Execute :

```
CLI> voximal debug interpreter
```

View the traces flow

Execute :

```
root# tail -f /var/log/voximal/debug.log
```

With colors :

```
root# tail -f /var/log/voximal/debug.log | ccze -A
```

Generate a normal stop

Clean stop of the Voximald process :

```
root# /usr/sbin/voximalc -local 2 -distant 1 -mode 2
```

Command-line arguments :

```
[-key id] [-local id] [-distant id] [-send message] [-mode 0..3]
```

To send one message, set mode to 0

To receive messages in loop, set mode to 1

To work in request/response, set mode to 2

To send messages in loop, set mode to 3

```
> exit
```

```
< exit|result=ok
```

Powerful top monitor

Use the “htop” tool :

```
htop -p $(pidoff voximald)
```

```
 1 [          0.0%]   Tasks: 33, 29 thr; 1 running
 2 [|         0.7%]   Load average: 0.51 0.28 0.30
 3 [          0.0%]   Uptime: 3 days, 01:39:39
 4 [          0.0%]
Mem[||||      175M/3.91G]
Swp[|         31.8M/7.81G]

  PID USER      PRI  NI  VIRT   RES   SHR S  CPU% MEM%   TIME+  Command
    1 root        20   0  199M   3316  2208 S   0.0  0.1   0:02.58 /sbin/init
18890 root        20   0 56440   4164  3360 S   0.0  0.1   0:00.02 ` -
/lib/systemd/s
18891 root        20   0  224M   1316    0 S   0.0  0.0   0:00.00 | ` - (sd-
pam)
  409 root        20   0 81156   1236  1068 S   0.0  0.0   0:00.95 ` -
/usr/lib/postf
14487 postfix    20   0 83224   5088  4320 S   0.0  0.1   0:00.00 | ` - pickup
-l -
  412 postfix    20   0 83388   1916  1648 S   0.0  0.0   0:00.30 | ` - qmgr -l
-t
  308 root        20   0  350M 24556 19196 S   0.0  0.6   0:05.93 ` -
/usr/sbin/apac
30788 www-data    20   0  350M   6752  1384 S   0.0  0.2   0:00.00 | ` -
/usr/sbin/a
30787 www-data    20   0  350M   6752  1384 S   0.0  0.2   0:00.00 | ` -
/usr/sbin/a
30786 www-data    20   0  350M   6752  1384 S   0.0  0.2   0:00.00 | ` -
/usr/sbin/a
30785 www-data    20   0  350M   6752  1384 S   0.0  0.2   0:00.00 | ` -
/usr/sbin/a
30784 www-data    20   0  350M   6752  1384 S   0.0  0.2   0:00.00 | ` -
/usr/sbin/a
  263 mysql      28   8  670M 38608  1668 S   0.0  0.9   1:55.94 ` -
/usr/sbin/mysq
 2808 mysql      20   0  670M 38608  1668 S   0.0  0.9   0:00.00 | ` -
/usr/sbin/m
F1Help F2Setup F3SearchF4FilterF5SortedF6CollapF7Nice -F8Nice +F9Kill
F10Quit
```

Monitor memory/CPU

A very simple way to follow the memory and CPU indicators :

```
root# top -b -d 5 -p $(pidof voximald) | awk -v OFS="," '$1+0>0 {print
strftime("%Y-%m-%d %H:%M:%S"),$1,$NF,$5,$6,$7,$9,$10; fflush() }' | tee
datas.csv
```

Valgrid using

The Asterisk module launch the interpreter by default, you need to disable it to be able to run the voximald process with Valgrid.

To disable the Voximal launch from the Asterisk module edit and add this option in the voximal.conf :

```
[general]
...
launcher=no
...
```

Start the voximald process with Valgrid :

```
#root valgrind --tool=memcheck --leak-check=full --log-file="logfile.out"
/usr/sbin/voximald -channels 1 -config /etc/openvxi/client.cfg -user
asterisk -group asterisk
```

And run the Asterisk.

```
asterisk -cvvvvv -U asterisk -G asterisk -g
```

VoiceXML Log levels

Format :

```
Diagnostic
date/time | threadID | sessionID or mark | tagID | subtag | text
Error
date/time | threadID | sessionID or -1 | 0 | severity | modulename |
errorID | errorText | appends
Event
date/time | threadID | sessionID | EVENT | 0|evenID | appends
```

Logging example :

```
...
Oct 23 23:39:12.35|0x7f82daebb700|-1|4002||AccessBegin Locked
Oct 23 23:39:12.35|0x7f82daebb700|-1|4002||AccessEnd Unlock
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|4000|SBjsiGetVar|exiting:
returned 0, 0x7f82daeb34e0 (0x7f82d419a750)
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|8002|fr.ulex.vxi|VXI::assign_e
lement(set value : id=08facd13i9e0q9o1m4vav8ghvn8tbagn21bfc5)
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|5001|VXIpromptWait|VXIprompt
Oct 23
```

```
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|5001|VXIpromptWait|Waiting
PROMPT
Oct 23 23:39:12.35|0x7f82daebb700|0_1_1540337949.313|5001|VXIpromptWait|EVT
< 1 : prompt|session=1|item=1|result=ok
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|8002|fr.ulex.vxi|VXI::DoInnerJ
ump()
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|4000|SBjsiCheckVar|entering:
0x7f82d412af00, '$_internalName_31627'
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|4004|JsiContext::CheckVar|Chec
k variable $_internalName_31627, context 0x7f82d41656e0
Oct 23 23:39:12.35|0x7f82daebb700|-1|4002||AccessBegin Lock
Oct 23 23:39:12.35|0x7f82daebb700|-1|4002||AccessBegin Locked
Oct 23 23:39:12.35|0x7f82daebb700|-1|4002||AccessEnd Unlock
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|4000|SBjsiCheckVar|exiting:
returned 0
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|4000|SBjsiCheckVar|entering:
0x7f82d412af00, '$_internalName_31628'
Oct 23
23:39:12.35|0x7f82daebb700|0_1_1540337949.313|4004|JsiContext::CheckVar|Chec
k variable $_internalName_31628, context 0x7f82d41656e0
Oct 23 23:39:12.35|0x7f82daebb700|-1|4002||AccessBegin Lock
...
```

The default log bases (used to define tagIDs) :

client.cache.diagLogBase	VXIInteger	2000
client.inet.diagLogBase	VXIInteger	3000
client.jsi.diagLogBase	VXIInteger	4000
client.prompt.diagLogBase	VXIInteger	5000
client.rec.diagLogBase	VXIInteger	6000
client.tel.diagLogBase	VXIInteger	7000
client.vxi.diagLogBase	VXIInteger	8000
client.object.diagLogBase	VXIInteger	9000
client.client.diagLogBase	VXIInteger	10000

Interet connector

```
<DiagnosticMessages moduleName="*SBinet">
  <diag tag="0">SBinet: API trace </diag>
  <diag tag="1">SBinet: Channel diagnostics </diag>
  <diag tag="2">SBinet: Stream diagnostics </diag>
  <diag tag="3">SBinet: Cookie diagnostics </diag>
  <diag tag="4">SBinet: Validator diagnostics </diag>
  <diag tag="5">SBinet: Cache diagnostics </diag>
```

```
<diag tag="6">SBinet: Timing diagnostics </diag>
<diag tag="10">SBinet: Dump HTTP requests and responses </diag>

</DiagnosticMessages>
```

Cache

```
<DiagnosticMessages moduleName="*SBcache">
  <diag tag="0">SBcache: API trace </diag>
  <diag tag="1">SBcache: Cache manager diagnostics </diag>
  <diag tag="2">SBcache: Cache entry diagnostics </diag>
  <diag tag="3">SBcache: Cache stream diagnostics </diag>
  <diag tag="4">SBcache: Cache entry table mutex diagnostics </diag>
  <diag tag="5">SBcache: Cache entry mutex diagnostics </diag>
</DiagnosticMessages>
```

EcmaScript interpreter

```
<DiagnosticMessages moduleName="*SBjsi">
  <diag tag="0">SBjsi: API trace </diag>
  <diag tag="1">SBjsi: JavaScript context diagnostics </diag>
  <diag tag="2">SBjsi: JavaScript garbage collection trace </diag>
  <diag tag="4">SBjsi: JavaScript scope diagnostics </diag>
  <diag tag="200">SBjsi: Native ScriptEase error messages </diag>
  <diag tag="201">SBjsi: ScriptEase debug log messages </diag>
</DiagnosticMessages>
```

Client main

```
<DiagnosticMessages moduleName="*OSBclient">
  <diag tag="0">OSBclient: API trace </diag>
  <diag tag="1">OSBclient: Component names and versions </diag>
  <diag tag="2">OSBclient: General diagnostics </diag>
</DiagnosticMessages>
```

Objects

```
<DiagnosticMessages moduleName="*OSBobject">
  <diag tag="0">OSBobject: API trace </diag>
</DiagnosticMessages>
```

VoiceXML interpreter (VXI)

```
<DiagnosticMessages moduleName="*.vxi">
```

```
<diag tag="0">VXI: VoiceXML document and application warnings</diag>
<diag tag="1">VXI: VoiceXML log element output</diag>
<diag tag="2">VXI: VoiceXML element logging</diag>
<diag tag="3">VXI: VoiceXML grammar logging</diag>
<diag tag="4">VXI: VoiceXML transitions</diag>
<diag tag="5">VXI: VoiceXML log Contents (VoiceXML and Data
XML/Json)</diag>
</DiagnosticMessages>
```

Telephony

```
<DiagnosticMessages moduleName="*.VXItel">
  <diag tag="0">VXItel: Signaling trace </diag>
</DiagnosticMessages>
```

Prompt

```
<DiagnosticMessages moduleName="*.VXIprompt">
  <diag tag="0">VXIprompt: Prompting trace </diag>
</DiagnosticMessages>
```

Recognize

```
<DiagnosticMessages moduleName="*.VXIrec">
  <diag tag="0">VXIrec: Recognition trace </diag>
  <diag tag="1">VXIrec: Grammar trace </diag>
</DiagnosticMessages>
```

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