

```

[3 15597926 66519541 01/19/19-09:27:59.577 hs_remove_vm.c vioHsRemoveVm 1.18 140]
skipping 24808803-eb32-4d0a-8aa5-a5b60216f15a: unknown machine
#
# grep vioHs viohs.log.libhealth.txt|tail -4
[3 20382194 66978263 01/20/19-01:56:41.563 hs_atten.c vioHsQuickQuery 1.107 4669]
End, rc=0
[3 20382198 60817889 01/20/19-01:57:03.553 hs_atten.c vioHsQuickQuery 1.107 4669]
End, rc=0
[3 20382202 66191779 01/20/19-01:57:25.594 hs_atten.c vioHsNeedsAttention 1.107
4587] End, rc=0
[3 17170756 66847175 01/20/19-01:57:49.944 hs_atten.c vioHsQuickQuery 1.107 4669]
End, rc=0
# grep -c vioHs viohs.log.libhealth.txt
4045
# grep -c vioHsQuickQuery viohs.log.libhealth.txt
1747
# grep -c vioHsNeedsAttention viohs.log.libhealth.txt
873
# grep -c vioHsQueryVM viohs.log.libhealth.txt
276
# grep -c vioHsRemoveVm viohs.log.libhealth.txt
1104
# grep vioHs viohs.log.libhealth.txt|egrep -v
"vioHsQuickQuery|vioHsNeedsAttention|vioHsQueryVM|vioHsRemoveVm"|head -4
[3 16056632 65143055 01/19/19-10:32:36.797 hs_ms.c vioHsAddMs 1.83 2254] Begin.
[3 16056632 65143055 01/19/19-10:32:36.820 hs_ms.c vioHsAddMs 1.83 2274] Managed
system is already existing.
[3 16056632 65143055 01/19/19-10:32:36.820 hs_ms.c vioHsAddMs 1.83 2451] END.
[3 17105370 65864085 01/19/19-11:40:46.475 hs_ms.c vioHsAddMs 1.83 2254] Begin.
# grep -c vioHsAddMs viohs.log.libhealth.txt
45
#

```

So, any string containing the **vioHs** substring in our log excerpt in Example 2-78 on page 117 is an occurrence of an API call from the `libviohealth.a` library:

$4045=1747+873+276+1104+45$.

Another legitimate question about our `viohs.log` file excerpt is which are the processes writing there. From our presentation so far, the best candidate appears to be the **vioservice** command. We choose the last entry of the tail output in Example 2-78 on page 117, which is a **vioHsQuickQuery** trace that is left by the thread 66847175 of process 17170756. Checking for this PID-TID combination in `viosvc.log` of the **vioservice** command, we obtain the request and response details of a related **VIO_HS_QUICK_QUERY** request, as shown in Example 2-79.

Example 2-79 VIO_HS_QUICK_QUERY request trace in `viosvc.log` and `viohs.log`

```

# alog -f /home/ios/logs/viosvc.log -o > viosvc.log.libhealth.txt
# more viosvc.log.libhealth.txt
...
[START 17170756 66847175 01/20/19-01:57:49.883 vioservice.c 1.18 320]
/usr/ios/sbin/vioservice lib/libviopass/passthru
[0 17170756 66847175 01/20/19-01:57:49.883 viosvc_res.c 1.26 456] stdin pipe
input:[<?xml version="1.0"?>

```