

## FreeNAS - Bug #28539

### Fix renamed function in zilstat MIB

02/15/2018 02:14 PM - Bill O'Hanlon

<b>Status:</b> Done	
<b>Priority:</b> No priority	
<b>Assignee:</b> Alexander Motin	
<b>Category:</b> OS	
<b>Target version:</b> 11.2-BETA1	
<b>Seen in:</b> Unspecified	<b>Needs Merging:</b> No
<b>Severity:</b> Medium	<b>Needs Automation:</b> No
<b>Reason for Closing:</b>	<b>Support Suite Ticket:</b> n/a
<b>Reason for Blocked:</b>	<b>Hardware Configuration:</b>
<b>Needs QA:</b> No	<b>ChangeLog Required:</b> No
<b>Needs Doc:</b> No	
<b>Description</b> zilstat is failing because fbt::zil_lwb_write_start:entry no longer exists as an trace point for dtrace.  /usr/local/bin/snmp-agent.py calls zilstat, so the FREENAS-MIB is returning 0 for a handful of variables.	
<b>Related issues:</b> Related to FreeNAS - Bug #40768: Revert recent zilstat commit as there is no ... <b>Done</b>	

#### Associated revisions

##### Revision 248de883 - 02/23/2018 06:39 AM - Bill O'Hanlon

fix(snmp/zilstat) dtrace was triggering off zil\_lwb\_write\_start, which has been removed.

Ticket: #28539

##### Revision 3bda775e - 04/19/2018 03:47 PM - Bill O'Hanlon

fix(snmp/zilstat) dtrace was triggering off zil\_lwb\_write\_start, which has been removed.

Ticket: #28539

#### History

##### #1 - 02/16/2018 11:43 AM - Dru Lavigne

- Assignee changed from Release Council to Alexander Motin

##### #2 - 02/16/2018 01:50 PM - Alexander Motin

Are you sure you saw the problem on 11.1-U2, not 11.2 (11-Nightly/11-stable)? Because that function was renamed only recently and that change is not in 11.1-stable branch.

##### #3 - 02/16/2018 03:09 PM - Bill O'Hanlon

- Seen in changed from TrueNAS 11.1-U2 to Unspecified

Actually, I'm not sure.

**#4 - 02/22/2018 07:46 AM - Alexander Motin**

- Assignee changed from Alexander Motin to Benno Rice

Benno, take a look at this please. It may be a trivial function rename in new ZFS code, though the ZIL code logic has changed also, so closer look may be needed.

**#5 - 02/22/2018 10:51 AM - Benno Rice**

zil\_lwb\_write\_start was renamed to zil\_lwb\_write\_issue in r324011. I'll do some further digging to see whether the semantics still match or not.

**#6 - 02/22/2018 10:58 AM - Benno Rice**

Looking at zilstat my read is that it's trying to measure (possibly among other things) the number of bytes being pushed through the ZIL, which is why it's hooking zil\_lwb\_write\_start. If my read on this is correct I think the right fix is just to hook zil\_lwb\_write\_issue instead.

**#7 - 02/22/2018 11:09 AM - Benno Rice**

- Status changed from Not Started to In Progress

**#8 - 02/22/2018 12:01 PM - Bill O'Hanlon**

FWIW, I did that on my system while trying to get past this issue to test another one, and it seemed to work well. So I agree that it seems like a good approach. :-)

**#9 - 02/22/2018 02:25 PM - Benno Rice**

Bill, did you want to take this over from here or did you want me to work up the patch for zilstat?

**#10 - 02/23/2018 06:32 AM - Bill O'Hanlon**

Sure, I can do that.

**#11 - 02/23/2018 06:36 AM - Dru Lavigne**

- Assignee changed from Benno Rice to Bill O'Hanlon

**#12 - 02/26/2018 08:18 AM - Bill O'Hanlon**

- Status changed from In Progress to Done

**#13 - 02/26/2018 08:25 AM - Dru Lavigne**

- Subject changed from zilstat is broken, which breaks FREENAS-MIB in SNMP to Fix renamed function in zilstat MIB

- Needs Doc changed from Yes to No

**#14 - 02/26/2018 08:29 AM - Dru Lavigne**

- Target version changed from 11.2-RC2 to 11.2-BETA1

- Needs Merging changed from Yes to No

**#15 - 05/02/2018 05:41 AM - Dru Lavigne**

- Status changed from Done to Ready for Testing

**#16 - 06/21/2018 01:39 PM - Nick Wolff**

- Status changed from Ready for Testing to Failed Testing

Zilstat is puking. Not sure if it's related to this or new issue

```
root@fncertified:/var/log # zilstat
```

```

dtrace: invalid probe specifier
#pragma D option quiet
inline int OPT_time = 0;
inline int OPT_txg = 0;
inline int OPT_pool = 0;
inline int OPT_mega = 0;
inline int INTERVAL = 1;
inline int LINES = -1;
inline int COUNTER = -1;
inline int FILTER = 0;
inline string POOL = "";
dtrace:::BEGIN
{
    /* starting values */
    MEGA = 1000000;
    counts = COUNTER;
    secs = INTERVAL;
    interval = INTERVAL;
    interval == 0 ? interval++ : 1;
    line = 0;
    last_event[""] = 0;
    nused=0;
    nused_max_per_sec=0;
    nused_per_sec=0;
    size=0;
    size_max_per_sec=0;
    size_per_sec=0;
    syncops=0;
    size_4k=0;
    size_4k_32k=0;
    size_32k=0;
    OPT_txg ? printf("waiting for txg commit...\n") : 1;
}

/*
 * collect info when zil_lwb_write_start fires
 */
fbt::zil_lwb_write_issue:entry
/OPT_pool == 0 || POOL == args[0]->zil_dmu_pool->dp_spa->spa_name/
{
    nused += args[1]->lwb_nused;
    nused_per_sec += args[1]->lwb_nused;
    size += args[1]->lwb_sz;
    size_per_sec += args[1]->lwb_sz;
    syncops++;
    args[1]->lwb_sz <= 4096 ? size_4k++ : 1;
    args[1]->lwb_sz > 4096 && args[1]->lwb_sz < 32768 ? size_4k_32k++ : 1;
    args[1]->lwb_sz >= 32768 ? size_32k++ : 1;
}

/*
 * Timer
 */
profile:::tick-1sec
{
    OPT_txg ? secs++ : secs--;
    nused_per_sec > nused_max_per_sec ? nused_max_per_sec = nused_per_sec : 1;
    nused_per_sec = 0;
    size_per_sec > size_max_per_sec ? size_max_per_sec = size_per_sec : 1;
    size_per_sec = 0;
}

/*
 * Print header
 */
profile:::tick-1sec
/OPT_txg == 0 && line == 0/
{
    /* print optional headers */
    OPT_time ? printf("%-20s ", "TIME") : 1;

    /* print header */
    OPT_mega ? printf("%10s %10s %10s %10s %10s %10s",
        "N-MB", "N-MB/s", "N-Max-Rate",
        "B-MB", "B-MB/s", "B-Max-Rate") :

```

```

        printf("%10s %10s %10s %10s %10s %10s",
            "N-Bytes", "N-Bytes/s", "N-Max-Rate",
            "B-Bytes", "B-Bytes/s", "B-Max-Rate");
    printf(" %6s %6s %6s %6s\n",
        "ops", "<=4kB", "4-32kB", ">=32kB");
    line = LINES;
}

fbt::txg_quiesce:entry
/OPT_txg == 1 && POOL == args[0]->dp_spa->spa_name && line == 0/
{
    OPT_time ? printf("%-20s ", "TIME") : 1;

    OPT_mega ? printf("%10s %10s %10s %10s %10s %10s %10s",
        "txg", "N-MB", "N-MB/s", "N-Max-Rate",
        "B-MB", "B-MB/s", "B-Max-Rate") :
        printf("%10s %10s %10s %10s %10s %10s %10s",
            "txg", "N-Bytes", "N-Bytes/s", "N-Max-Rate",
            "B-Bytes", "B-Bytes/s", "B-Max-Rate");
    printf(" %6s %6s %6s %6s\n",
        "ops", "<=4kB", "4-32kB", ">=32kB");
    line = LINES;
}

/*
 * Print Output
 */
profile::tick-1sec
/OPT_txg == 0 && secs == 0/
{
    OPT_time ? printf("%-20Y ", walltimestamp) : 1;
    OPT_mega ?
        printf("%10d %10d %10d %10d %10d %10d",
            nused/MEGA, nused/(interval*MEGA), nused_max_per_sec/MEGA,
            size/MEGA, size/(interval*MEGA), size_max_per_sec/MEGA) :
        printf("%10d %10d %10d %10d %10d %10d",
            nused, nused/interval, nused_max_per_sec,
            size, size/interval, size_max_per_sec);
    printf(" %6d %6d %6d %6d\n",
        syncops, size_4k, size_4k_32k, size_32k);
    nused = 0;
    nused_per_sec = 0;
    nused_max_per_sec = 0;
    size=0;
    size_max_per_sec=0;
    size_per_sec=0;
    syncops=0;
    size_4k=0;
    size_4k_32k=0;
    size_32k=0;
    secs = INTERVAL;
    counts--;
    line--;
}

fbt::txg_quiesce:entry
/OPT_txg == 1 && POOL == args[0]->dp_spa->spa_name/
{
    secs <= 0 ? secs=1 : 1;
    OPT_time ? printf("%-20Y ", walltimestamp) : 1;
    OPT_mega ?
        printf("%10d %10d %10d %10d %10d %10d %10d", args[1],
            nused/MEGA, nused/(secs*MEGA), nused_max_per_sec/MEGA,
            size/MEGA, size/(secs*MEGA), size_max_per_sec/MEGA) :
        printf("%10d %10d %10d %10d %10d %10d %10d", args[1],
            nused, nused/secs, nused_max_per_sec,
            size, size/secs, size_max_per_sec);
    printf(" %6d %6d %6d %6d\n",
        syncops, size_4k, size_4k_32k, size_32k);
    nused = 0;
    nused_per_sec = 0;
    nused_max_per_sec = 0;
    size=0;
    size_max_per_sec=0;
    size_per_sec=0;
}

```

```
    syncops=0;
    size_4k=0;
    size_4k_32k=0;
    size_32k=0;
    secs = 0;
    counts--;
    line--;
}

/*
 * End of program
 */
profile:::tick-1sec
/OPT_txd == 0 && counts == 0/
{
    exit(0);
}
fbt:::txg_quiesce:entry
/OPT_txd == 1 && counts == 0/
{
    exit(0);
}
: "/usr/lib/dtrace/ip.d", line 112: failed to copy typedef in6_addr_t source type: Type information is in parent and unavailable
root@fncertified:/var/log #
```

**#18 - 06/25/2018 12:55 PM - Dru Lavigne**

- Assignee changed from Bill O'Hanlon to Alexander Motin

**#20 - 06/25/2018 02:28 PM - Alexander Motin**

The errors at the end are probably caused by different issue ([#34609](#)). It should work (can be tested) on TrueNAS though.

**#21 - 06/29/2018 08:57 AM - Dru Lavigne**

- Status changed from Failed Testing to Ready for Testing

- Priority changed from Regression to No priority

**#22 - 06/29/2018 11:06 AM - Nick Wolff**

- Status changed from Ready for Testing to Done

No longer blocked by broken dtrace.

Looks good  
test passed

**#23 - 06/29/2018 12:35 PM - Dru Lavigne**

- Needs QA changed from Yes to No

**#24 - 08/09/2018 02:12 PM - Alexander Motin**

- Related to Bug #40768: Revert recent zilstat commit as there is no zil\_lwb\_write\_start() function in FreeNAS 11.1 added