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An: Pickl Johann, FG-833MU
Betreff: 32bits Oracle Client installation on SLES15SP6

Hi Hans,

I'm still struggling to get the Oracle 32bits version installed on the new SLES15SP6 server. My gut feelings tells me it is related to the new version of glibc as the Oracle software itself is not changed (exactly same software used on both systems compared with SLES15SP5).

sles15sp5: glibc-32bit-2.31-150300.46.1.x86_64 / glibc-devel-32bit-2.31-150300.46.1
sles15sp6: glibc-32bit-2.38-150600.6.2.x86_64 / glibc-devel-32bit-2.38-150600.6.2

During the run of gencintsh a map file is generated, there I see a difference between the two versions:

itavmworacbuild155:

```
/lfs/oracle/ora191200c32/lib/libsvml.a(svml_u_rem4_core_t7la.o)
                                     /lfs/oracle/ora191200c32/lib/libsvml.a(svml_u_rem4_iface_la.o)
(_svml_urem4_t7)
/usr/lib/libc_nonshared.a(stat.oS)
                                     /lfs/oracle/ora191200c32/lib/libclient19.a(skgud.o) (stat)
/usr/lib/libc_nonshared.a(fstat.oS)
                                     /lfs/oracle/ora191200c32/lib/libnl19.a(snlfn.o) (fstat)
/usr/lib/libc_nonshared.a(lstat.oS)
                                     /lfs/oracle/ora191200c32/lib/libztkg19.a(g_initialize.o) (lstat)
/usr/lib/libc_nonshared.a(stat64.oS)
                                     /lfs/oracle/ora191200c32/lib/libclient19.a(skudmi.o) (stat64)
/usr/lib/libc_nonshared.a(fstat64.oS)
                                     /lfs/oracle/ora191200c32/lib/libclient19.a(skudmi.o) (fstat64)
/usr/lib/libc_nonshared.a(lstat64.oS)
                                     /lfs/oracle/ora191200c32/lib/libclient19.a(skudmi.o) (lstat64)
```

As-needed library included to satisfy reference by file (symbol)

```
ld-linux.so.2                       /lfs/oracle/ora191200c32/lib/libldapclnt19.a(sgsluu.o)
(__tls_get_addr@@GLIBC_2.3)
```

itavmworacbuild156:

```
/lfs/oracle/ora192200NEW/lib/libsvml.a(svml_u_rem4_core_t7la.o)
                                     /lfs/oracle/ora192200NEW/lib/libsvml.a(svml_u_rem4_iface_la.o)
(__svml_urem4_t7)
```

As-needed library included to satisfy reference by file (symbol)

```
ld-linux.so.2                       /lfs/oracle/ora192200NEW/lib/libldapclnt19.a(sgsluu.o)
(__tls_get_addr@@GLIBC_2.3)
```

On SLES15SP6 there 'reference' to `/usr/lib/libc_nonshared.a` is missing, which is probably causing these error messages in a later stage:

```
Linking /lfs/oracle/ora192200c32/precomp/lib/proc
/usr/lib64/gcc/x86_64-suse-linux/7/../../../../x86_64-suse-linux/bin/ld:
/lfs/oracle/ora192200c32/lib//libclntsh.so: undefined reference to `fstat64'
/usr/lib64/gcc/x86_64-suse-linux/7/../../../../x86_64-suse-linux/bin/ld:
/lfs/oracle/ora192200c32/lib//libclntsh.so: undefined reference to `stat64'
```

```
/usr/lib64/gcc/x86_64-suse-linux/7/../../../../x86_64-suse-linux/bin/ld:
/lfs/oracle/ora192200c32/lib//libclntsh.so: undefined reference to `lstat'
/usr/lib64/gcc/x86_64-suse-linux/7/../../../../x86_64-suse-linux/bin/ld:
/lfs/oracle/ora192200c32/lib//libclntsh.so: undefined reference to `fstat'
/usr/lib64/gcc/x86_64-suse-linux/7/../../../../x86_64-suse-linux/bin/ld:
/lfs/oracle/ora192200c32/lib//libclntsh.so: undefined reference to `lstat64'
/usr/lib64/gcc/x86_64-suse-linux/7/../../../../x86_64-suse-linux/bin/ld:
/lfs/oracle/ora192200c32/lib//libclntsh.so: undefined reference to `stat'
collect2: error: ld returned 1 exit status
```

As this referenced library is part of glibc-devel package, I expect the root cause must be somewhere in the fact the the glibc versions are different between SLES15SP5 and SLES15SP6. Do you probably have any clue ?

I read something about “ Linux kernel config option CONFIG_COMPAT_32BIT_TIME and userspace ABI “, Reference: https://sourceware.org/glibc/wiki/Release/2.38#Current_status, not sure if this related.....

Grz,
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