## 2020-05-10

My own example:

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Linux

CentOS 7.7.1908

sudo yum update

sudo yum install tbb-devel

sudo yum remove tbb-devel

Windows

Downloaded and unpacked tbb-2020.2-win.zip

Created

C:\proglib\TBB\Win32\

Copied there from tbb\bin\ia32\vc14\

tbbmalloc\_proxy.dll tbbmalloc\_proxy\_debug.dll tbbmalloc.dll tbbmalloc\_debug.dll

and from tbb\lib\ia32\vc14\

tbbmalloc\_proxy.lib tbbmalloc\_proxy\_debug.lib

tbbmalloc\_proxy.pdb tbbmalloc\_proxy\_debug.pdb

Created C:\proglib\TBB\x64\

Copied there from tbb\bin\intel64\vc14\

tbbmalloc\_proxy.dll tbbmalloc\_proxy\_debug.dll tbbmalloc.dll tbbmalloc\_debug.dll

and from tbb\lib\intel64\vc14\

tbbmalloc\_proxy.lib tbbmalloc\_proxy\_debug.lib

tbbmalloc\_proxy.pdb tbbmalloc\_proxy\_debug.pdb

Added C:\proglib\TBB\x64 to PATH

Added C:\proglib\TBB\Win32 to PATH

VS 2015

Libinchi->Properties->VC++ Directories->Library Directories (all configs, x64)->Edit-> add C:\proglib\TBB\x64\

Libinchi->Properties->VC++ Directories->Library Directories (all configs,Win32)->Edit-> add C:\proglib\TBB\Win32\

Add to linker opts

For 32-bit code (note the triple underscore):

tbbmalloc\_proxy.lib /INCLUDE:"\_\_\_TBB\_malloc\_proxy"

For 64-bit code (note the double underscore):

tbbmalloc\_proxy.lib /INCLUDE:"\_\_TBB\_malloc\_proxy"

then removed, for testing,

C:\proglib\TBBxxx

from PATH in favor of placing in app\test dir (to see-and-check if tbbmalloc is requested really and is missing)

## 2020-05-11

Linux

CentOS 7.7.1908

sudo yum update

sudo yum install tbb-devel

## 2020-05-12

**ipl:latest#yum list installed tbb**

Loaded plugins: auto-update-debuginfo, fastestmirror, priorities, versionlock

Loading mirror speeds from cached hostfile

\* base: mirror.23media.com

\* centos-sclo-rh: mirror.checkdomain.de

\* centos-sclo-sclo: centos.schlundtech.de

\* centosplus: mirror.checkdomain.de

\* elrepo: mirrors.coreix.net

\* epel: mirror.23media.com

\* epel-debuginfo: mirror.23media.com

\* extras: mirror.23media.com

\* rpmforge: mirror1.hs-esslingen.de

\* updates: mirror1.hs-esslingen.de

Installed Packages

tbb.x86\_64 4.1-9.20130314.el7 @base

**ipl:latest#sudo yum remove tbb**

Loaded plugins: auto-update-debuginfo, fastestmirror, priorities, versionlock

Resolving Dependencies

--> Running transaction check

---> Package tbb.x86\_64 0:4.1-9.20130314.el7 will be erased

--> Processing Dependency: tbb(x86-64) = 4.1-9.20130314.el7 for package: tbb-devel-4.1-9.20130314.el7.x86\_64

--> Running transaction check

---> Package tbb-devel.x86\_64 0:4.1-9.20130314.el7 will be erased

--> Finished Dependency Resolution

Dependencies Resolved

============================================================================================================================================================================

Package Arch Version Repository Size

============================================================================================================================================================================

Removing:

tbb x86\_64 4.1-9.20130314.el7 @base 353 k

Removing for dependencies:

tbb-devel x86\_64 4.1-9.20130314.el7 @base 1.2 M

Transaction Summary

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Remove 1 Package (+1 Dependent package)

Installed size: 1.5 M

Is this ok [y/N]: y

Downloading packages:

Running transaction check

Running transaction test

Transaction test succeeded

Running transaction

Erasing : tbb-devel-4.1-9.20130314.el7.x86\_64 1/2

Erasing : tbb-4.1-9.20130314.el7.x86\_64 2/2

/sbin/ldconfig: /lib/libinchi.so.1 is not a symbolic link

Verifying : tbb-devel-4.1-9.20130314.el7.x86\_64 1/2

Verifying : tbb-4.1-9.20130314.el7.x86\_64 2/2

Removed:

tbb.x86\_64 0:4.1-9.20130314.el7

Dependency Removed:

tbb-devel.x86\_64 0:4.1-9.20130314.el7

Complete!

ipl:latest#

## FOLLOW INSTRUCTIONS

<https://software.intel.com/content/www/us/en/develop/articles/installing-intel-free-libs-and-python-yum-repo.html>

**ipl:latest#sudo yum-config-manager --add-repo https://yum.repos.intel.com/setup/intelproducts.repo**

Loaded plugins: auto-update-debuginfo, fastestmirror, priorities, versionlock

adding repo from: https://yum.repos.intel.com/setup/intelproducts.repo

grabbing file https://yum.repos.intel.com/setup/intelproducts.repo to /etc/yum.repos.d/intelproducts.repo

repo saved to /etc/yum.repos.d/intelproducts.repo

ipl:latest#

**ipl:latest#sudo yum-config-manager --add-repo https://yum.repos.intel.com/tbb/setup/intel-tbb.repo**

Loaded plugins: auto-update-debuginfo, fastestmirror, priorities, versionlock

adding repo from: https://yum.repos.intel.com/tbb/setup/intel-tbb.repo

grabbing file https://yum.repos.intel.com/tbb/setup/intel-tbb.repo to /etc/yum.repos.d/intel-tbb.repo

repo saved to /etc/yum.repos.d/intel-tbb.repo

ipl:latest#

## NOW FOLLOW

<https://stackoverflow.com/questions/36534706/trouble-linking-intel-tbb-library>

wget <https://github.com/oneapi-src/oneTBB/releases/download/v2020.2/tbb-2020.2-lin.tgz>

## THEN FORGET AND GO ANOTHER WAY

**ipl:Linux#yum info intel-tbb-devel-2020.2-217.x86\_64**

**ipl:Linux#sudo yum install intel-tbb-devel-2020.2-217.x86\_64**

…

Installed:

intel-tbb-devel-2020.2-217.x86\_64 0:2020.2-217

Dependency Installed:

intel-comp-l-all-vars-19.1.1-217.noarch 0:19.1.1-217 intel-comp-nomcu-vars-19.1.1-217.noarch 0:19.1.1-217 intel-tbb-common-2020.2-217.noarch 0:2020.2-217

intel-tbb-doc-2020.noarch 0:2020.2-217 intel-tbb-libs-2020.2-217.x86\_64 0:2020.2-217 intel-tbb-libs-common-2020.2-217.noarch 0:2020.2-217

Complete!

ipl:Linux#mc

INTERESTING:

IT IS INSTALLED IN /opt

LIKE

/opt/intel/compilers\_and\_libraries\_2018.3.222/linux/tbb/lib/intel64\_lin/gcc4.4/libtbbmalloc.so.2

**ipl:Linux#gcc --version**

**gcc (GCC) 4.8.5 20150623 (Red Hat 4.8.5-16)**

So seems that I need in

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb\_preview\_debug.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbbind.so

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_proxy\_debug.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb\_debug.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb\_debug.so

**/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_proxy.so**

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbbind\_debug.so

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb.so

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_debug.so.2

**/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc.so.2**

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_debug.so

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb\_preview.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbbind\_debug.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb\_preview\_debug.so

**/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_proxy.so.2**

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbbind.so.2

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc.so

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_proxy\_debug.so

/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbb\_preview.so

**OK, these paths work both for gcc and ld!**

**ipl:ChEBI\_lite#less run-tbb.sh**

export LD\_PRELOAD="/opt/intel/compilers\_and\_libraries\_2020.1.217/linux/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc\_proxy.so.2 /opt/intel/compilers\_and\_libraries\_2020.1.217/linu x/tbb/lib/intel64\_lin/gcc4.8/libtbbmalloc.so.2"

#./mol2inchi ChEBI\_lite.sdf -Threads:1 -Perthread:1024 -NoWarnings -AuxNone -Key >/dev/null 2>m2i-1-TBB.log

#./mol2inchi ChEBI\_lite.sdf -Threads:2 -Perthread:1024 -NoWarnings -AuxNone -Key >/dev/null 2>m2i-2-TBB.log

#./mol2inchi ChEBI\_lite.sdf -Threads:3 -Perthread:1024 -NoWarnings -AuxNone -Key >/dev/null 2>m2i-3-TBB.log

./mol2inchi ChEBI\_lite.sdf -Threads:4 -Perthread:1024 -NoWarnings -AuxNone -Key >/dev/null 2>m2i-4-TBB.log

#./mol2inchi ChEBI\_lite.sdf -Threads:8 -Perthread:1024 -NoWarnings -AuxNone -Key >/dev/null 2>m2i-8-TBB.log

#./mol2inchi ChEBI\_lite.sdf -Threads:16 -Perthread:1024 -NoWarnings -AuxNone -Key >/dev/null 2>m2i-16-TBB.log

run-tbb.sh (END)