# First Error Message

Selecting Windows SDK version 10.0.19041.0 to target Windows 10.0.19044.

\*\*\* Creating 64-bit GMAT Build System. Please ensure that 64-bit versions of all dependencies are available. \*\*\*

Downloading Boost 1.71.0 ...

Microsoft (R) Build Engine version 15.9.21+g9802d43bc3 for .NET Framework  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
Checking Build System  
Creating directories for 'boost-populate'  
Building Custom Rule C:/GMAT\_Compiling/gmat-git/depends/build/boost-subbuild/CMakeLists.txt  
Performing download step (download, verify and extract) for 'boost-populate'  
-- Downloading...  
dst='C:/GMAT\_Compiling/gmat-git/depends/build/boost-subbuild/boost-populate-prefix/src/boost\_1\_71\_0.tar.bz2'  
timeout='none'  
inactivity timeout='none'  
-- Using src='https://dl.bintray.com/boostorg/release/1.71.0/source/boost\_1\_71\_0.tar.bz2'  
-- [download 0% complete]  
CMake Error at build/boost-subbuild/boost-populate-prefix/src/boost-populate-stamp/download-boost-populate.cmake:170 (message):  
Each download failed!  
  
CUSTOMBUILD : error : downloading 'https://dl.bintray.com/boostorg/release/1.71.0/source/boost\_1\_71\_0.tar.bz2' failed [C:\GMAT\_Compiling\gmat-git\depends\build\boost-subbuild\boost-populate.vcxproj]  
status\_code: 22  
status\_string: "HTTP response code said error"  
log:  
--- LOG BEGIN ---  
timeout on name lookup is not supported  
Trying 34.225.25.188:443...  
  
Connected to dl.bintray.com (34.225.25.188) port 443 (#0)  
  
schannel: disabled automatic use of client certificate  
  
ALPN: offers h2  
  
ALPN: offers http/1.1  
  
ALPN: server accepted http/1.1  
  
GET /boostorg/release/1.71.0/source/boost\_1\_71\_0.tar.bz2 HTTP/1.1  
  
Host: dl.bintray.com  
  
User-Agent: curl/7.83.1  
  
Accept: \*/\*  
  
  
  
Mark bundle as not supporting multiuse  
  
HTTP/1.1 404 Not Found  
  
Date: Fri, 17 Mar 2023 23:06:38 GMT  
  
Content-Type: text/html  
  
Content-Length: 146  
  
Connection: keep-alive  
  
Strict-Transport-Security: max-age=15724800; includeSubDomains  
  
CUSTOMBUILD : The requested URL returned error : 404 [C:\GMAT\_Compiling\gmat-git\depends\build\boost-subbuild\boost-populate.vcxproj]  
  
Closing connection 0  
  
schannel: shutting down SSL/TLS connection with dl.bintray.com port 443  
  
  
  
--- LOG END ---

CMake Error at C:/Program Files/CMake/share/cmake-3.24/Modules/FetchContent.cmake:1604 (message):  
Build step for boost failed: 1  
Call Stack (most recent call first):  
C:/Program Files/CMake/share/cmake-3.24/Modules/FetchContent.cmake:1628 (\_\_FetchContent\_directPopulate)  
depends/CMakeModules/GmatBoostConfig.cmake:43 (FetchContent\_Populate)  
depends/CMakeLists.txt:19 (INCLUDE)

Configuring incomplete, errors occurred!

See also "C:/GMAT\_Compiling/gmat\_build/CMakeFiles/CMakeOutput.log".

## The problem

CMAKE is not downloading boost because location bintray no longer exist

<https://jfrog.com/blog/into-the-sunset-bintray-jcenter-gocenter-and-chartcenter/>

## Solution

Download boost at <https://www.boost.org/users/history/version_1_71_0.html>

Changed “URL” in picture to <https://boostorg.jfrog.io/artifactory/main/release/1.71.0/source/boost_1_71_0.7z>

(C:\GMAT\_Compiling\gmat-git\depends\CMakeModules)

Text

Description automatically generated

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\*\*\* Creating 64-bit GMAT Build System. Please ensure that 64-bit versions of all dependencies are available. \*\*\*

Downloading Boost 1.71.0 ...

Found Boost: C:/GMAT\_Compiling/gmat-git/depends/Boost\_1\_71\_0 (found suitable exact version "1.71.0")

Found CSPICE: C:/GMAT\_Compiling/gmat-git/depends/cspice/windows/cspice64

Found F2C: C:/GMAT\_Compiling/gmat-git/depends/cspice/windows/cspice64/include

CMake Warning at CMakeLists.txt:352 (MESSAGE):  
SNOPT CPP library not found. Check that SNOPT\_ROOT\_DIR contains a valid  
SNOPT installation.

CMake Warning at CMakeLists.txt:356 (MESSAGE):  
SNOPT library not found. Check that SNOPT\_ROOT\_DIR contains a valid SNOPT  
installation.

CMake Error at CMakeLists.txt:362 (MESSAGE):  
Missing required CSALT dependencies: aborting build.

Configuring incomplete, errors occurred!

See also "C:/GMAT\_Compiling/gmat\_build/CMakeFiles/CMakeOutput.log".

## Solution

Not recognizing SNOPT libraries. (snopt7.dll and snopt7\_cpp.dll)

Suspect the SNOPT dynamic-link libraries are bad.

Was using precompiled libraries from SNOPT (<https://ccom.ucsd.edu/~optimizers/downloads/request/academic/>)

Precompiled libraries don’t seem to work. Try recompiling SNOPT

CSALT was developed with SNOPT 7.5. I was told in an email that newer versions of SNOPT would still work if you modify the CMAKE file