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# ISSUE 1 - VIT INSTALL FAILS W/O NUMPY

#### **ISSUE DATE:**

7/10/2020

#### **ISSUE WORKSPACE ENV:**

Working Locally on CPU and conda python=3.6.12

#### **ISSUE DESC:**

On a clean conda install, once we have pip install --upgrade pip then pip install vitamin-b it seems to fail on line 20 of requirements.txt this is the line where cpnest is dealt with. It appears to install this package it needs to install numpy (before numpy itself is installed by iterating through requirements.txt) as seen on line 184 of issue1\_failed\_vit\_install\_no\_numpy\_terminal\_ouput\_log.txt.

#### **ISSUE RESOLVE STEPS:**

- 1. Will try pip install numpy==1.18.4 (specific version from requirements.txt) on a clean conda env then pip install vitamin-b
- 2. might also be a conda issue so if RESOLVE STEP 1 doesn't work will try using python -m venv command instead (can do easily cause I'm local if this works means we need a python3.6 interpreter on wiay (conda not usable))

#### **ISSUE RESOLVE STATUS:**

Not sent to Hunter Yet

## ISSUE 2 - VIT FAILS WITH NUMPY AT BUILDING

## **CPNEST**

#### **ISSUE DATE:**

7/10/20

#### **ISSUE WORKSPACE ENV:**

Working Locally on CPU and conda python=3.6.12

#### **ISSUE DESC:**

On clean conda env, pip install numpy==1.18.4 first (as suggested in possible ISSUE 1 RESOLVE) then pip install vitamin\_b. There seems to be a problem with building wheel for cpnest which is suspicious as it's the same package at the heart of ISSUE 1. Despite pip offering a short-term solution it

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seems cpnest isn's built completely properly (if it is built, it is by a counter-intuitive way that will become depreciated in later updates of pip). This is in excess of 4 tensorflow incompatibilities with different package versions. See issue2\_failed\_vit\_install\_terminal\_outputlog.txt for details:

- line 409-439 failed to build wheel for cpnest
- line 477-478 confirms only cpnest package failed to build
- line 480-482 short-term solution that installs cpnest from legacy setup. py but this wont be possible in newer versions of pip
- line 484 gives solution for later pip updates how to keep the short-term fix working
- line 486-489 shows tensorflow incompatibilties with other packages

#### **ISSUE RESOLVE STEPS:**

- 1. Compatibility issues I have a suspicion conda could be the problem. Specifically, mixing its installs with pip. Will try with python -m venv locally so I can use pip exclusively. If works, will be harder to run on wiay as is.
- 2. If python -m venv doesn't work could try installing vit from source (without the option geos and skymap stuff initially)

#### ISSUE RESOLVE STATUS:

Not sent to Hunter yet

# ISSUE 3 - SAME AS ISSUE 1&2 WITH VIRUALENV (NOT A CONDA PROBLEM - GOOD FOR WIAY)

#### **ISSUE DATE:**

7/10/20

#### **ISSUE WORKSPACE ENV:**

virtualenv locally on CPU python=3.6.9

#### **ISSUE DESC:**

Firstly, same as ISSUE 1 where numpy needs to be installed before vit. This time only pip was used so can confirm it's not a conda problem which makes working on wiay that much easier (once this issue is resolved). See file

issue3\_failed\_vit\_install\_with\_virtualenv\_cpnest\_nobuild\_terminal\_ouput\_log.txt where line 53 shows same error as ISSUE 1 and line60 shows me installing the right version of numpy manually.

Second part of issue is similar to ISSUE 2 where vit install fails at building cpnest however this time there is a different error outul log. I believe this is because I upgraded pip to pip 20.2.3 so there isn't the same backup building from legacy setup.py as before in ISSUE 2. Initial build fail of cpnest occurs at

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line 277-310. But then after it doesn't try back up method and just fails at the cpnest/paramter stuff and exits.

## **ISSUE RESOLVE STEPS:**

- 1. Now that I have concluded it's not a conda problem can safely go back to using it. Will try next building from source by cloning the vit repo and using virtualenv as in the docs.
- 2. Despite errors, will try running the inital vit imports to see if it is working. Note, thi means I'll need to install jupyter notebook onto my virtualenv ontop of the packages from requirements.txt to get a local jupyter server up. Hope this doesn't mess with any dependencies etc...

## **ISSUE RESOLVE STATUS:**

Not sent to Hunter yet