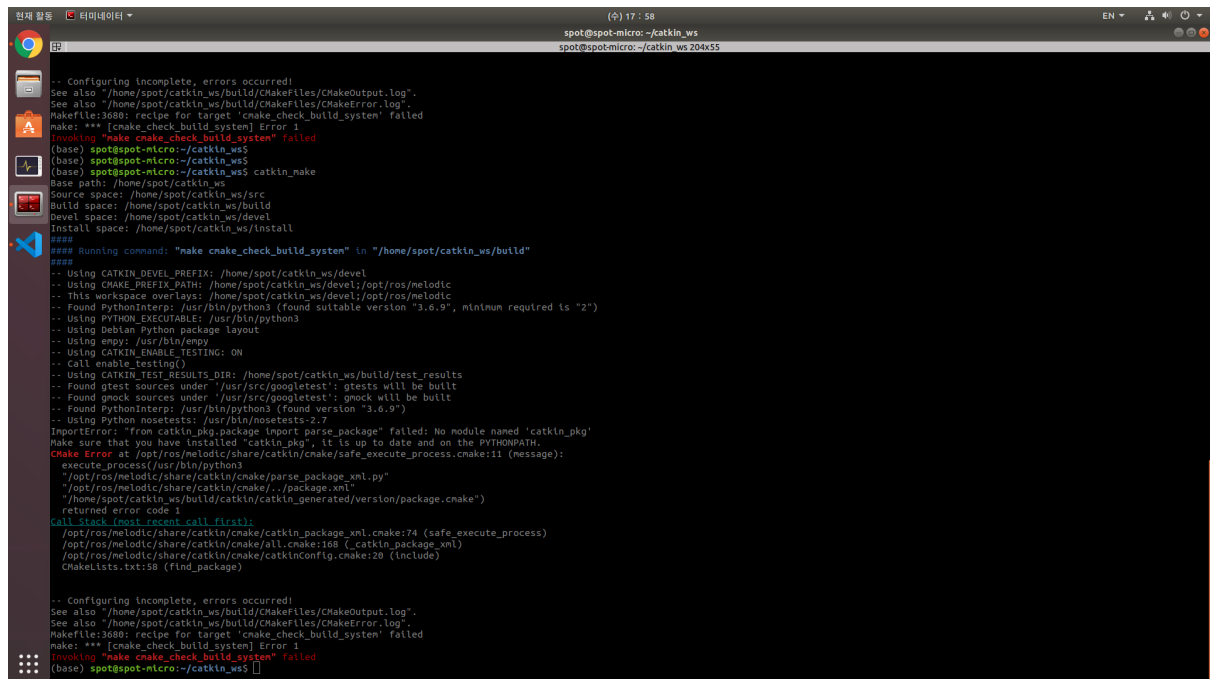


프로젝트_8

A terminal window on a Linux system showing the output of a catkin build process. The terminal title is 'spot@spot-micro: ~/catkin_ws'. The output shows a CMake configuration step for the 'catkin' package. It lists various system paths and dependencies. The build process fails with an error: 'ImportError: from catkin_pkg.package import parse_package failed: No module named 'catkin_pkg''. The error message suggests that the 'catkin_pkg' module is not installed or not in the Python path. The terminal also shows the CMake command being executed: 'make cmake_check_build_system' in the directory '/home/spot/catkin_ws/build'.

```
-- Configuring incomplete, errors occurred!
See also "/home/spot/catkin_ws/build/CMakeFiles/CMakeOutput.log".
See also "/home/spot/catkin_ws/build/CMakeFiles/CMakeError.log".
CMakefile:3680: recipe for target 'cmake_check_build_system' failed
make: *** [cmake_check_build_system] Error 1
Invoking "make cmake_check_build_system" failed
(base) spot@spot-micro:~/catkin_ws$ catkin_make
(base) spot@spot-micro:~/catkin_ws$
Base path: /home/spot/catkin_ws
Source space: /home/spot/catkin_ws/src
Build space: /home/spot/catkin_ws/build
Devel space: /home/spot/catkin_ws/devel
Install space: /home/spot/catkin_ws/install

####
#### Running command: "make cmake_check_build_system" in "/home/spot/catkin_ws/build"
####
-- Using CATKIN_DEVEL_PREFIX: /home/spot/catkin_ws/devel
-- Using CMAKE_PREFIX_PATH: /home/spot/catkin_ws/devel;/opt/ros/melodic
-- This workspace overlays: /home/spot/catkin_ws/devel;/opt/ros/melodic
-- Found PythonInterp: /usr/bin/python3 (found suitable version "3.6.9", minimum required is "2")
-- Using PYTHON_EXECUTABLE: /usr/bin/python3
-- Using Debian Python package layout
-- Using empy: /usr/bin/empy
-- Using CATKIN_ENABLE_TESTING: ON
-- Call enable_testing()
-- Using CATKIN_TEST_RESULTS_DIR: /home/spot/catkin_ws/build/test_results
-- Found gtest sources under '/usr/src/googletest': gtests will be built
-- Found gmock sources under '/usr/src/googletest': gmock will be built
-- Found PythonInterp: /usr/bin/python3 (found version "3.6.9")
-- Using Python nose tests: /usr/bin/nosetests-2.7
ImportError: from catkin_pkg.package import parse_package failed: No module named 'catkin_pkg'
make sure that you have installed 'catkin_pkg', it is up to date and on the PYTHONPATH.
CMake Error at /opt/ros/melodic/share/catkin/cmake/safe_execute_process.cmake:11 (message):
  execute_process(/usr/bin/python3
    "/opt/ros/melodic/share/catkin/cmake/parse_package.xml.py"
    "/opt/ros/melodic/share/catkin/cmake/..package.xml"
    "/home/spot/catkin_ws/build/catkin/cmake/generated/vernon/package.cmake")
  returned error code 1
Call Stack (most recent call first):
  /opt/ros/melodic/share/catkin/cmake/catkin_package.xml.cmake:74 (safe_execute_process)
  /opt/ros/melodic/share/catkin/cmake/all.cmake:168 (_catkin_package_xml)
  /opt/ros/melodic/share/catkin/cmake/catkinConfig.cmake:28 (include)
  CMakeLists.txt:58 (find_package)

-- Configuring incomplete, errors occurred!
See also "/home/spot/catkin_ws/build/CMakeFiles/CMakeOutput.log".
See also "/home/spot/catkin_ws/build/CMakeFiles/CMakeError.log".
CMakefile:3680: recipe for target 'cmake_check_build_system' failed
make: *** [cmake_check_build_system] Error 1
Invoking "make cmake_check_build_system" failed
(base) spot@spot-micro:~/catkin_ws$
```

오류 해결 : 작업폴더 재생성

로봇 구조 파악진행중

<https://s3-us-west-2.amazonaws.com/secure.notion-static.com/b1b5f951-4b59-4ee3-8022-521fe4dbc227/spotmicro.xacro>

<https://s3-us-west-2.amazonaws.com/secure.notion-static.com/13641f5a-58ea-46e5-b423-64acab6e5897/spotmicro2.xacro>

조립 과정중 jetson nano보드 자체 문제발생(40pin 입력X)

※jetson nano에 ros-melodic 설치하기

과정중 문제

“sudo apt --fix-broken install” 에러

apt사용 X

cd /var/lib/dpkg/info/ 이동

sudo rm -r [해당 패키지].* 삭제

sudo apt clean

sudo apt update

“sudo apt --fix-broken install” 로 수정

ros 설치 다시 시작

※jetson nano에 netplan 사용하여 고정ip설정

sudo apt-get install netplan.io

sudo vi /etc/netplan/config.yaml 만들기

(gateway 확인 : route)

(gateway 확인 : netstat -nr)

(주소 확인 : hostname - I)

유선

network:

version: 2

renderer: networkd

ethernets:

enp6s0:

addresses:

- ????.????.???./24

gateway4: ????.????.???.

```
nameservers:  
  addresses: [8.8.8.8,8.8.4.4]
```

와이파이

```
network:  
  version: 2  
  renderer: networkd  
  wifis:  
    wlp2s0:  
      dhcp4: yes  
      access-points:  
        "network_ssid_name":  
          password: "*****"
```

dhcp 방식

```
network:  
  version: 2  
  renderer: networkd  
  ethernets:  
    enp6s0:  
      dhcp4: yes  
      dhcp6: yes
```

```
sudo netplan apply
```

