

build_scripts/env_OpenBLAS.sh

```
#!/usr/bin/bash
```

```
export OPENBLAS_ROOT="${OPENBLAS_ROOT:-/opt/OpenBLAS}"
OPENBLAS_INCL="${OPENBLAS_ROOT}/include/openblas"
OPENBLAS_LIB="${OPENBLAS_ROOT}/lib"
OPENBLAS_PKGCONFIG="${OPENBLAS_ROOT}/lib/pkgconfig"
```

```
# Function to check directory exists and add to colon-separated search path if not already present
```

```
add_to_path() {  
    local DIR="$1"  
    local SEARCH_PATH_NAME="$2"  
    local SEARCH_PATH_VALUE="${!SEARCH_PATH_NAME:-}"  
  
    # Check directory exists  
    if [[ ! -d "${DIR}" ]]; then  
        echo "Error: Directory does not exist: ${DIR}" >&2  
        return 1  
    fi  
  
    # Check if already in search path  
    local REGEX="(^[|:]${DIR}(:|\$))"  
    if [[ "${SEARCH_PATH_VALUE}" =~ ${REGEX} ]]; then  
        return 0  
    fi  
  
    # Prefix search path  
    export "${SEARCH_PATH_NAME}=${DIR}${SEARCH_PATH_VALUE:+:${SEARCH_PATH_VALUE}}"  
}
```

```
# CPATH, C_INCLUDE_PATH, CPLUS_INCLUDE_PATH
add_to_path "${OPENBLAS_INCL}" "CPATH"
# INCLUDE
add_to_path "${OPENBLAS_INCL}" "INCLUDE"
# LD_LIBRARY_PATH
add_to_path "${OPENBLAS_LIB}" "LD_LIBRARY_PATH"
# LIBRARY_PATH
add_to_path "${OPENBLAS_LIB}" "LIBRARY_PATH"
# PKG_CONFIG_PATH
add_to_path "${OPENBLAS_PKGCONFIG}" "PKG_CONFIG_PATH"
```

```
unset -f add_to_path
```

```
# CMAKE_PREFIX_PATH
# Searches in <prefix>/lib/cmake/<PackageName>/ for <PackageName>Config.cmake
if [[ -d "${OPENBLAS_ROOT}" ]]; then
    export CMAKE_PREFIX_PATH="${OPENBLAS_ROOT}${CMAKE_PREFIX_PATH:+;}${CMAKE_PREFIX_PATH}"
fi
```