#!/bin/bash

# enable next line for debugging purpose

# set -x

############################################

# User Configuration

############################################

# adapt this path to your needs

#export PATH=~/home/rus/Desktop/shared/Training/IMAGE-2017/GRAPH:$PATH

#gptPath="~/usr/local/snap6/bin/gpt"

export PATH=~/progs/snap/bin:$PATH

gptPath="/usr/local/snap6/bin/gpt"

#gptPath="gpt"

############################################

# Command line handling

############################################

# first parameter is a path to the graph xml

graphXmlPath="$1"

#graphXmlPath="/home/rus/Desktop/shared/Training/IMAGE-2017/GRAPH/split\_orbit.xml"

# second parameter is a path to a parameter file

parameterFilePath="$2"

# use third parameter for path to source products

sourceDirectory="$3"

#sourceDirectory="/home/rus/Desktop/shared/Training/IMAGE-2017"

# use fourth parameter for path to target products

targetDirectory="$4"

#targetDirectory="/home/rus/Desktop/shared/Training/IMAGE-2017/GRAPH"

# the fifth parameter is a file prefix for the target product name, typically indicating the type of processing

targetFilePrefix="$5"

#targetFilePrefix="split\_orbit"

############################################

# Helper functions

############################################

removeExtension() {

 file="$1"

 echo "$(echo "$file" | sed -r 's/\.[^\.]\*$//')"

}

############################################

# Main processing

############################################

# Create the target directory

mkdir -p "${targetDirectory}"

# the d option limits the elemeents to loop over to directories. Remove it, if you want to use files.

for F in $(ls -1d "${sourceDirectory}"/S1\*.SAFE); do

 sourceFile="$(realpath "$F")"

 targetFile="${targetDirectory}/${targetFilePrefix}\_$(removeExtension "$(basename ${F})").dim"

 ${gptPath} ${graphXmlPath} -e -p ${parameterFilePath} -t ${targetFile} ${sourceFile}

done