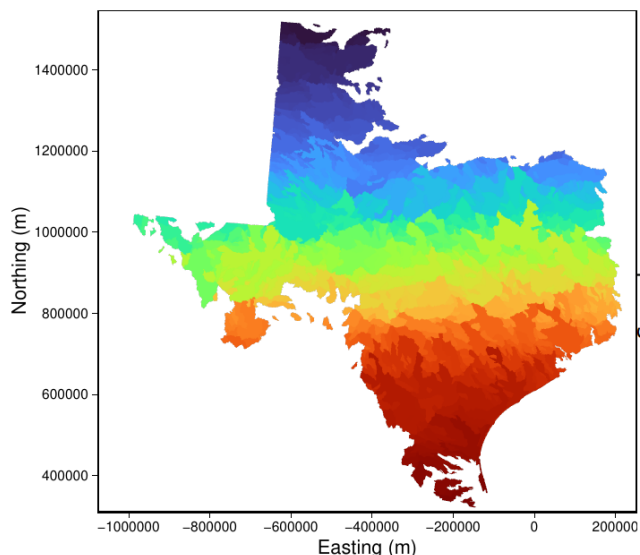


# Efficient delineation of a large number of subwatersheds

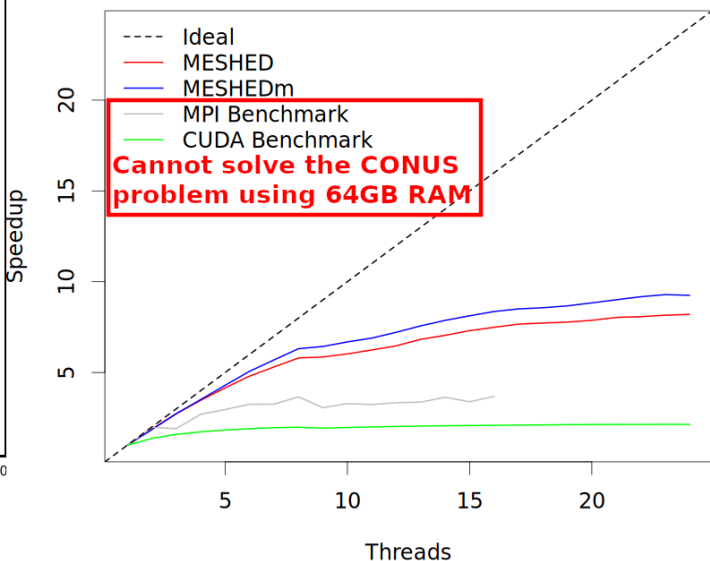
This project aims to develop and implement an efficient algorithm for delineating a large number of watersheds. It will deliver an open-source hydrology tool.

## MESHED

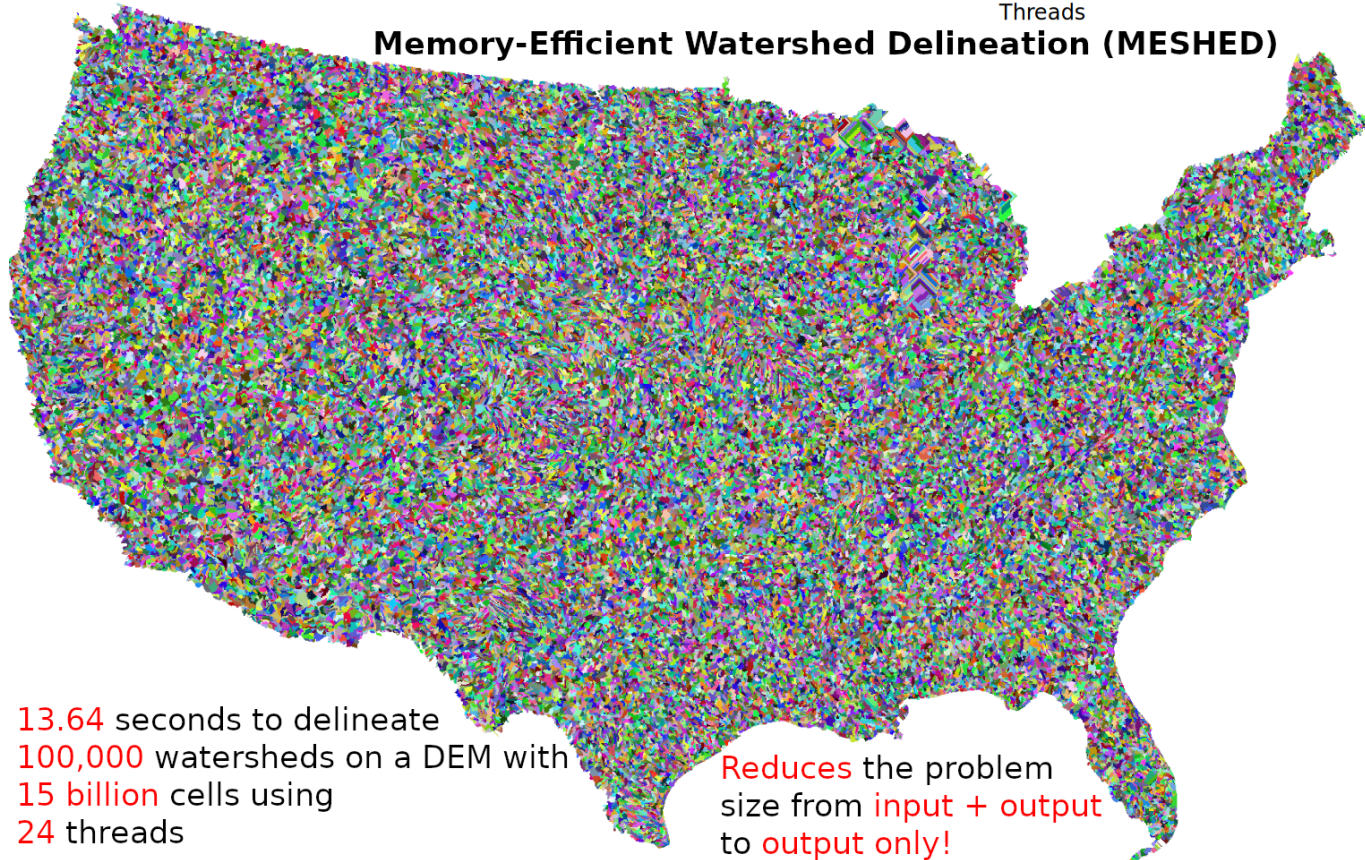


Projection: NAD83 / Conus Albers (EPSG:5070)

### Strong scaling for 1,000 watersheds in Texas



### Memory-Efficient Watershed Delineation (MESHED)



13.64 seconds to delineate  
 100,000 watersheds on a DEM with  
 15 billion cells using  
 24 threads

Reduces the problem size from input + output to output only!

[projects](#)

Last update: 2024-08-03 10:12 pm projects:efficient\_delineation\_of\_a\_large\_number\_of\_watersheds https://hydrowiki.isnew.info/projects/efficient\_delineation\_of\_a\_large\_number\_of\_watersheds

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