INCOIS-RIMES Training Course on "Customization of Ocean State Forecast Products" (May 20-24, 2024)

PyFerret installation instructions

Checking the status of Virtualization and WSL in Windows PC:

👰 Task Manager × File Options View Processes Performance App history Startup Users Details Services CPU CPU Intel(R) Xeon(R) CPU W3680 @ 3.33GHz 18% 3.37 GHz ANNU % Utilization Memory 7.5/12.0 GB (62%) Disk 0 (G: C: E:) HDD 28% Ethernet Ethernet S: 48.0 R: 56.0 Kbps Ethernet 60 seconds VirtualBox Host-O... S: 0 R: 0 Kbps 3.33 GHz Utilization Speed Base speed Sockets: 18% 3.37 GHz Cores: 6 Processes Threads Handles Logical pro 2961 123693 Virtualizati Enabled 245 1 cache 384 KB Up time L2 cache: 1.5 MB 4:21:19:37 L3 cache 12.0 MB

status of virtualization in performance Tab.

If virtualization is disabled in your PC follow the below instructions to enable.

For Dell PC follow the instructions below link:

https://www.dell.com/support/kbdoc/en-in/000195978/how-to-enable-or-disable-hardwarevirtualization-on-dell-systems

For HP PC follow the instructions below link:

https://support.hp.com/us-en/document/ish_5637142-5637191-16

Next, enable Windows Subsystem for Linux in Windows features.

Type "Turn Windows features on or off" in start menu search and click on open.

Turn Windows features on or off Control panel	5
Search work and web	Turn Windows features on or off
Turn Windows features on or off - See work and web results	Control panel
	다 Open

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Tick on Windows Subsystem for Linux and click ok.

🔄 Windo	ws Features	_		×	
Turn W	indows features on or off			?	
To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.					
	Simple TCPIP services (i.e. echo, daytir	ne etc)		~	
	SMB 1.0/CIFS File Sharing Support				
	SMB Direct				
	Telnet Client				
	TFTP Client				
	Virtual Machine Platform				
	Windows Hypervisor Platform				
	Windows Identity Foundation 3.5				
•	Windows PowerShell 2.0				
•	Windows Process Activation Service				
	Windows Projected File System				
	Windows Sandbox				
	Windows Subsystem for Linux				
	Windows TIFF IFilter				
	Work Folders Client			~	
		ОК	Cance	el	

Installing WSL Ubuntu-20.04, miniconda and PyFerret:

Open Windows terminal and type

wsl -d Ubuntu-20.04 --install

When prompted give username and password

After successful installation type **wsl –list** and the prompt will display the installed Ubuntu distribution.



Activate wsl ubuntu by typing wsl -d Ubuntu-20.04



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Now install minionda by executing the following commands

mkdir -p ~/miniconda3

wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linuxx86 64.sh -0 ~/miniconda3/miniconda.sh

bash ~/miniconda3/miniconda.sh -b -u -p ~/miniconda3

~/miniconda3/bin/conda init bash

After installation check the conda version by giving the command **conda --version**

chandrasekhar@INC-CHANDRASEKHAR:/mnt/c/Users/incois
chandrasekhar@INC-CHANDRASEKHAR:/mnt/c/Users/incois\$ conda --version
conda 24.1.2
chandrasekhar@INC-CHANDRASEKHAR:/mnt/c/Users/incois\$

Now Execute the following command on the terminal to install pyferret as well as ferret_datasets

conda create -n FERRET -c conda-forge pyferret ferret_datasets --yes

activate the ferret environment by executing the command

conda activate FERRET