[Exploring OCaml + Ruby + F# + C# → Testing B0 System w.r.t Image Processing R&D]

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[I] Main Idea + Inspiration + Introduction :

https://erratique.ch/software/b0/doc/

https://www.linuxjournal.com/content/whats-new-ruby-world-rocaml

 $\underline{https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/OCaml-C-llvm-numerics/blob/main/oCaml-C-llvm-numerics/blob/main/oCaml-C-llvm-nume$

Inceptionv3-Nir-21.pdf

[II] R&D Informatics Framework Using Software + Hardware :

B0 + Ruby + rocami +OCAML + C + LLVM + SMART DEVICES + IoT + QRNG + HPC HETEROGENEOUS SYSTEMS R&D MEDICAL/ELECTRON MICROSCOPY IMAGE PROCESSING PLATFORM ONE OF THE PIONEERING R&D EFFORTS IN THIS HIGHLY CHALLENGING DOMAINS OF S&T. TESTING IN PROGRESS AT THE TIME OF SUBMISSION. OCami based Inception V3 Concepts to Process MRI Scans process the info Mongo DB - Ruby Smart Devices + IoT + HPC Heterogeneous Systems +QRNG cryo-EM Images BIG DATA + Related Analysis. fine tune Display on Devices/HPC Systems Monitor the Images Using Movidius + Rasp PI + AI Medical Images MRI scans/ TEST the quality using Movidius + Machine Learning Concepts. C + OCaml + LLVM cryo-EM Images Intel Movidius + Rasp PI etc algorithn install & launch the required software like : OCaml + Owl + C + LLVM to TEST Advanced Image Processing Algorithms Approximate Idea Only -> Actual Implementation Will Certainly Vary. Thanks - Dr.Nirmal. Linux OS input/s Our Simple TEST Algorithm Using OCaml + Owl + C + LLVM -> Developing Next Generation Medical Imaging Platforms for BIGDATA + Related Informatics. Thanks - Dr.Nirmal.

[Figure I - R&D Informatics Framework Using Above Mentioned Software Tools]

<u>https://github.com/tejdnk-2019-ShortNotes</u> – Lot of examples from us. <u>https://github.com/b0-system</u> – Notes on B0 System.

[ALGORITHM I - Testing B0 + QRNG + BIG DATA Related Concepts Using Ruby/mruby/OCami/rocami/C Languages + Tools]

[&]quot;B0 System — Software Construction & Deployment Kit Testing in Heterogeneous Environments."

B0 + Ruby + rocami + OCAML + C + LLVM + SMART DEVICES + IoT + QRNG + HPC HETEROGENEOUS SYSTEMS R&D MEDICAL/ELECTRON MICROSCOPY IMAGE PROCESSING PLATFORM ONE OF THE PIONEERING RAD EFFORTS IN THIS HIGHLY CHALLENGING DOMAINS OF S&T. TESTING IN PROGRESS AT THE TIME OF SUBMISSION. OCami based Inception V3 Concepts to Process MRI Scans cryo-EM Images MongoDB-OCamI + BIG DATA Analysis fine tune Display on Devices/HPC Sys Mongo DB- F# Monitor the Images Using Movidius + Rasp PI + AI Medical Images MRI scans/ cryo-EM Images or Intel Movidius + Rasp PI C + OCaml + LLVM MongoDB -C# the algorithm install & launch the requi like: OCaml + Owl + C + Approximate Idea Only -Thanks - Dr.Nirmal. s software VM to TEST Advanced Image Processing Algorithms actual Implementation Will Certainly Vary. Our Simple TEST Algorithm Using OCaml + Owl + C + LLVM -> Developing Next Generation Medical Imaging Platforms for BIGDATA + Related Informatics. Thanks - Dr.Nirmal.

[Figure II- R&D Informatics Framework Using Above Mentioned Software Tools]

[III] Acknowledgment/s:

Non-Profit R&D. Inspire Others Always. Sincere Thanks to all WHO made this happen.

Algorithm-II - Modified Version of Algorithm I -Please Make a Note of it

[THE END]