XFOR Programming Tools + GCCS + KOKA Programming Language to Understand Polyhedral Compilation Techniques w.r.t Machine Learning Algorithms -> Space + Medicine + Telecoms + HPC Heterogeneous Systems R&D Domains - A Suggestion & Simple Technical Notes.

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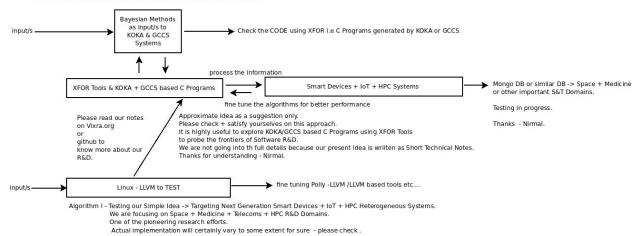
[I] Main Idea + Inspiration + Introduction :

Exploring Bayesian Inference Using GCCS + KOKA + XFOR Programming Algorithms targeting Space + Medicine + Telecoms or other important S&T Domains.

Please read our online technical notes on GitHub: Please check our references mentioned below for your information.

[II] R&D Informatics Framework Using GCCS + KOKA + XFOR Programming Concepts :

SIMPLE IDEA TO PERFORM R&D IN THE DESIGN OF NEXT GENERATION SOFTWARE TO PROBE SMART DEVICES + IOT + HPC HETEROGENEOUS SYSTEMS. THINK DIFFERENT ALWAYS IN DEVELOPING NOVEL TESTBED ARCHITECTURES



[Figure I - Algorithm I - A Simple Test Bed towards Testing Next Generation Software + Hardware involving KOKA + GCCS + XFOR + LLVM]

[a] Algorithm I :

GCCS -> Generate C Programs based on Bayesian Methods -> Perform XFOR Programming Analysis and Check the RESULTS -> We are targeting Medical Devices + IoT + HPC Systems. Rigorous Testing in progress @ the time of submission. Readers could easily generate their own informatics R&D Frameworks based on Novel Algorithms using our references + other published literature presented here.

[b] Algorithm II:

KOKA -> Generate C Programs based on Bayesian Methods -> Perform XFOR Programming Analysis and Check the RESULTS -> We are targeting Medical Devices + IoT + HPC Systems. Rigorous Testing in progress @ the time of submission.Readers could easily generate their own informatics R&D Frameworks based on Novel Algorithms using our references + other published literature presented here.

Here,we intend to study both GCCS & KOKA to probe our C Programs in designing advanced Software for our Medical Imaging Systems & Related Informatics using Bayesian Methods. Actual implementation might vary to some extent - Please check.

[III] Important & Useful References:

- $[a]\ https://www.kdnuggets.com/2016/07/bayesian-machine-learning-explained.html$
- $[b]\ https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/KOKA-Bioinfo-Nir-21-GW.pdf$
- $[c]\ https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/KOKA-Bioinfo-Nir-21.pdf$
- $[d]\ https://github.com/tejdnk-2019-ShortNotes/2021-Nir-Informatics/blob/main/KOKA-Radiology-Nir-21.pdf$
- [e] http://xfor.gforge.inria.fr/index.html && [f] http://gentle.compilertools.net/
- [g] https://github.com/tejdnk-2019-ShortNotes/tejdnk-Space-Medicine-Informatics-github.io/blob/master/GCCS-ACCENT-Nirmal-Gene-Chips-2020.pdf
- [h] https://www.vixra.org/pdf/1910.0257v1.pdf && [i] https://polly.llvm.org/ && [j] https://polyhedral.info/
- $[k] \ https://www.microsoft.com/en-us/research/uploads/prod/2021/06/perceus-pldi21.pdf$

[IV] Acknowledgment/s:

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

[V] Conclusion/s + Future Perspectives :

One of the pioneering efforts in this advanced Software R&D domains.Worth pursuing it.Testing @ the time of submission. Hope more technical notes or communications will follow based on our research efforts.Thanks.

[THE END]