

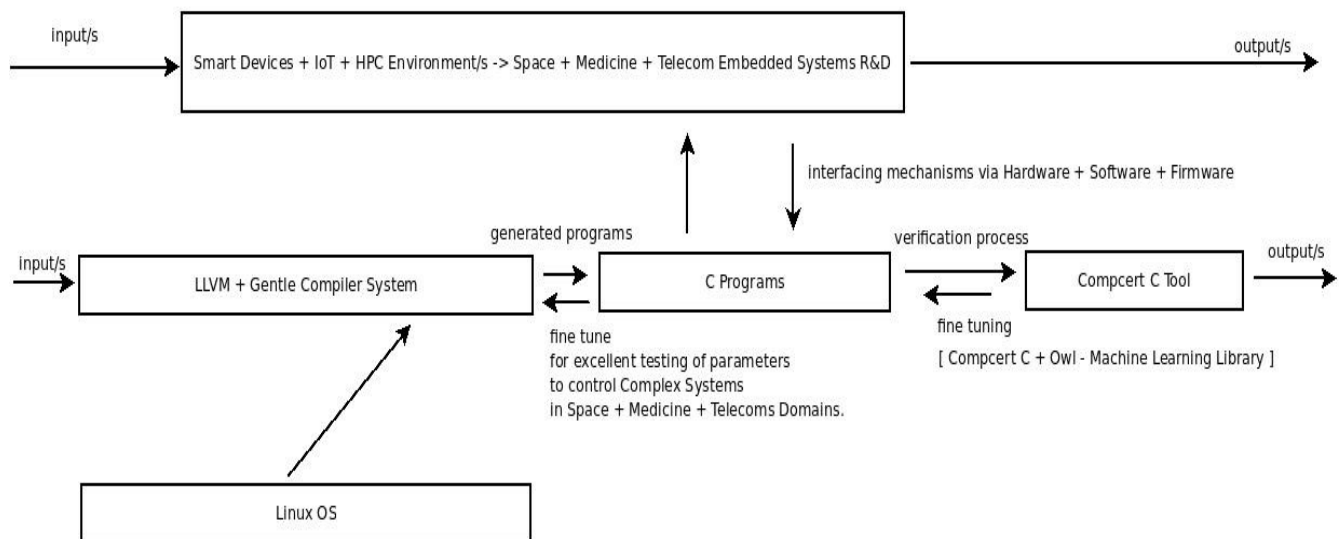
Testing LLVM or Gentle Compiler Construction System Generated Programs Using Compcert C → A Simple Suggestion to Explore the above mentioned Software Tools → Space + Medicine + Telecom R&D involving Embedded Systems Domains.

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[I] Main Idea + Inspiration + Introduction :

A SIMPLE ADVANCED C PROGRAMS TESTING FRAMEWORK USING FUNCTIONAL PROGRAMMING + MATHEMATICS + MACHINE LEARNING
ONE OF THE PIONEERING R&D EFFORTS IN THE EMBEDDED SYSTEMS DOMAIN INVOLVING LLVM + GENTLE + COMPCERT C
VERY USEFUL IN MISSION CRITICAL DOMAINS LIKE SPACE MEDICINE etc.



Simple Algorithm to TEST our Ideas involving all the above mentioned Software + Firmware + Hardware + Machine Learning Concepts

Testing in Progress with some promising results.

Actual Implementation might vary please check.

Thanks - Dr.Nirmal - Informatics R&D.

Please Check & Satisfy Yourselves.

[Figure I - Algorithm I – ES Informatics Testing Framework]

*ES – Embedded Systems Testing Using C Programs + CompcertC + OWL.

[II] Important References :

[a] <http://gentle.compilertools.net/> [b] <https://llvm.org/>

[c] <https://compcert.org/> [d] <https://github.com/tejdnk-2019-ShortNotes>

[III] Acknowledgment/s : Non-Profit R&D. Inspiring Others always is GOOD.

[THE END]