An Interesting insight into Considering & Using Grobner Bases/Boolean Rings in the Context of P-SPACE involving Smart Devices/IoT/HPC/Hardware/Software/Firmware based Heterogeneous Computing Environments – Towards Next Generation Smart Applications for Circadian Rhythms [CR] R&D.

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[I] Inspiration & Introduction :

@inproceedings{Tran2009GroebnerBC, title={Groebner Bases Computation in Boolean Rings is P-SPACE}, author={Quoc-Nam Tran}, year={2009} }

https://en.wikipedia.org/wiki/PSPACE

https://www.semanticscholar.org/paper/Groebner-Bases-Computation-in-Boolean-Rings-is-Tran/bb956fa7cd4094beeb06d46830388d65d1d11d19
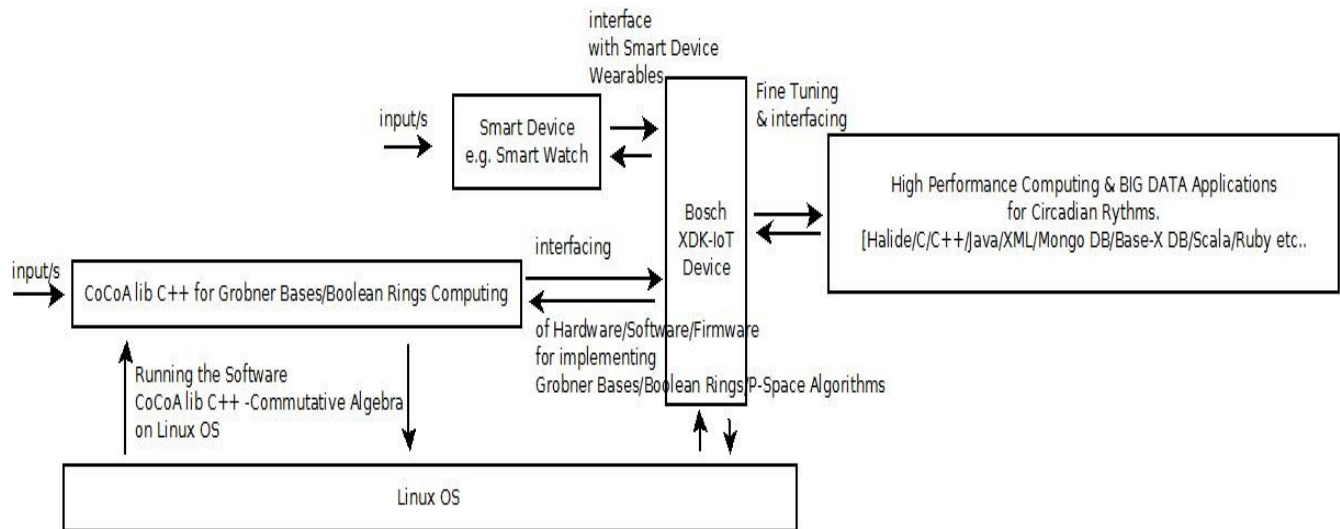
https://www.semanticscholar.org/author/Nirmal-Tej-Kumar/12354503/suggest

http://vixra.org/author/n_t_kumar

http://vixra.org/author/nirmal_tej_kumar

https://en.wikipedia.org/wiki/CoCoA && http://cocoa.dima.unige.it/

[II] Informatics Framework Implementation :

interface
with Smart Device
Wearables

input/s

Smart Device
e.g. Smart Watch

Fine Tuning
& interfacing

Bosch
XDK-IoT
Device

High Performance Computing & BIG DATA Applications
for Circadian Rythms.
[Halide/C/C++/Java/XML/Mongo DB/Base-X DB/Scala/Ruby etc..

input/s

CoCoA lib C++ for Grobner Bases/Boolean Rings Computing

interfacing

of Hardware/Software/Firmware
for implementing
Grobner Bases/Boolean Rings/P-Space Algorithms

Running the Software
CoCoA lib C++ -Commutative Algebra
on Linux OS

Linux OS

Our Approximate Informatics Framework - Grobner Bases/Boolean Rings/P-Space Platform to Probe Circadian Rhythms Using
Smart Devices/IoT/HPC/Data Bases/BIG Data Concepts.
Testing in Progress.Please Check & Satisfy Yourself.Actual Implementation might vary to some extent.
Not endorsing any commercial products here there could be other alternatives as well.
Thanks - Dr.Nirmal.

[Figure I : Co-Design With Hardware/Software/Firmware -Testing in progress][Source - Groebner Bases Computation in Boolean Rings is P-SPACE - Quoc-Nam Tran Published 2009]

[III] Acknowledgment/s :

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[THE END]