

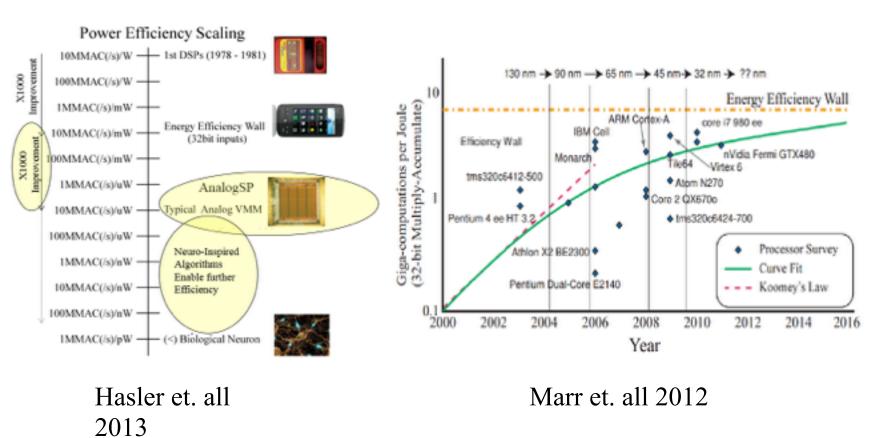
Android Interface for FPAA Device

Benjamin Bolte, Sahil Shah, Siwan Kim and Jennifer Hasler

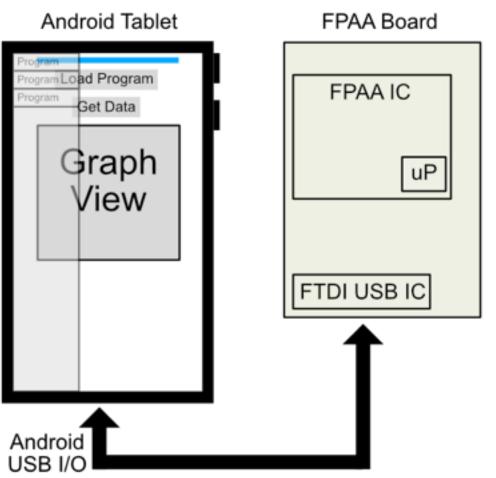


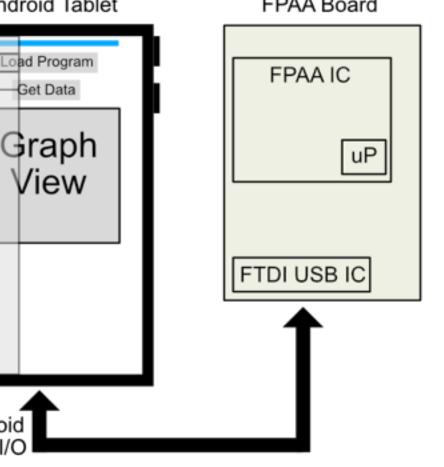
Measure Voltage

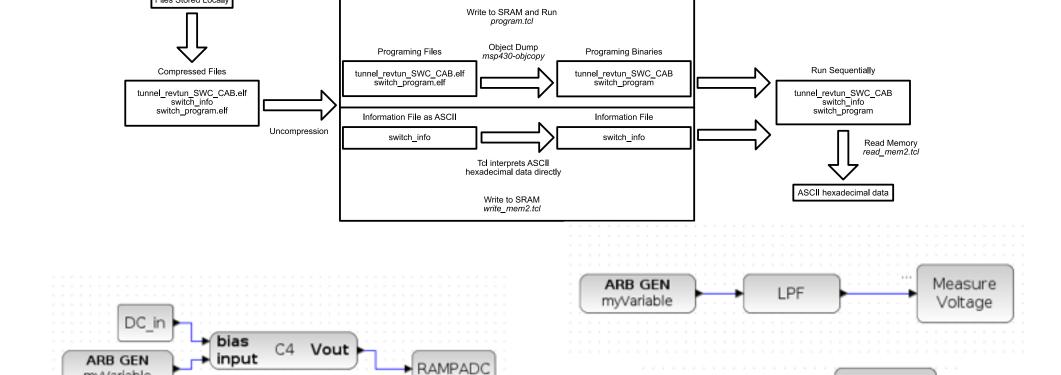
FPAAs are computationally efficient



Tablet-Board Communication



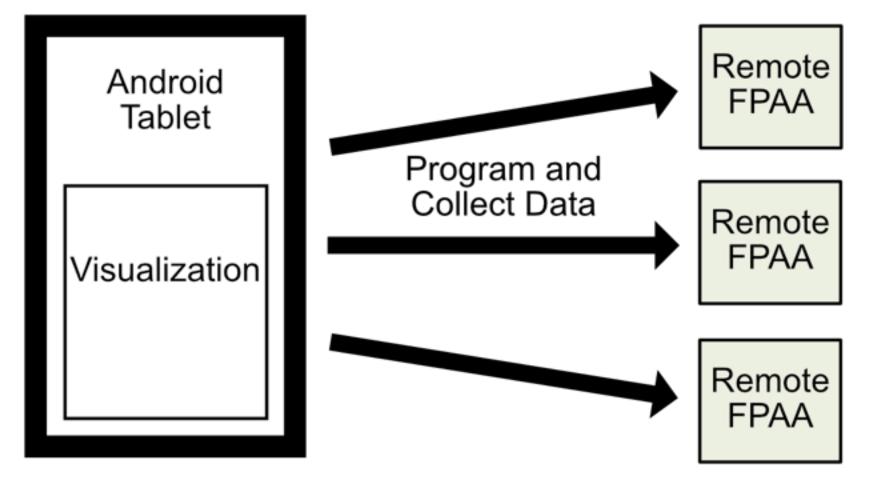




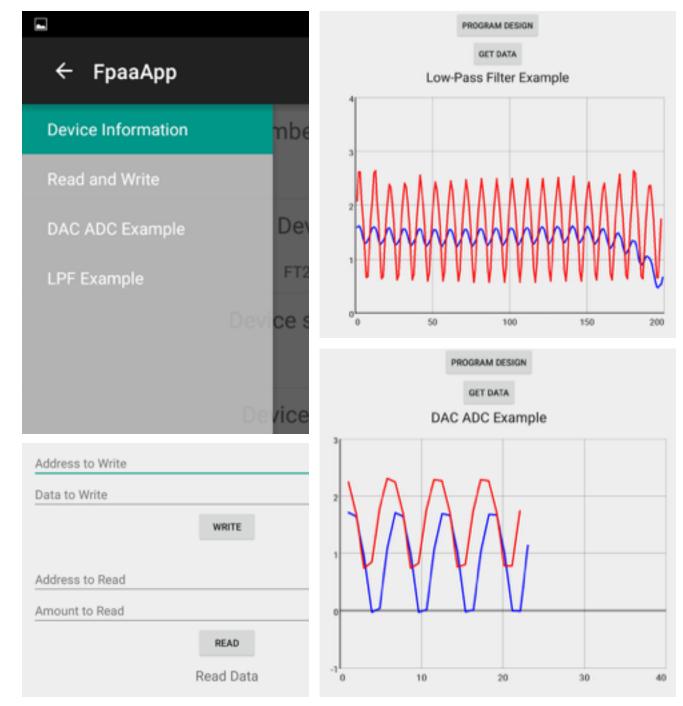
Programming flow integrates with high-level design

tools

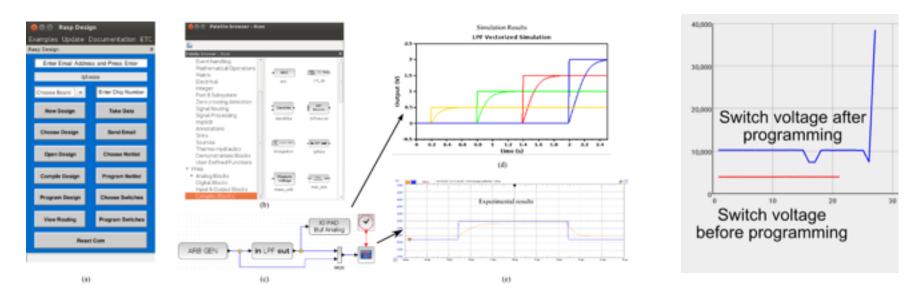
Tablet interface gives portability and ease of data collection



Choose between different programs to run on-chip



CAD tools used to enable Hardware-Software Codesign



Code available at https://github.com/codekansas/FpaaApp



REFERENCES

- [1] S. Nedevschi, R. K. Patra, and E. A. Brewer, "Hardware speech recognition for user interfaces in low cost, low power devices," in 42nd Annual Conf. on Design Automation (DAC), 2005, pp. 684–689.
- [2] S. George, S. Kim, S. Shah, J. Hasler, M. Collins, F. Adil, R. Wunderlich, S. Nease, and S. Ramakrishnan, "A programmable and configurable mixed-mode FPAA SOC," Accepted to IEEE Transactions on VLSI, Oct 2015.
- [3] J. Gehring, "Graphview open source graph plotting library for android."
- [4] J. Hasler and B. Marr, "Finding a roadmap to achieve large neuromorphic hardware systems," Frontiers in Neuromorphic Engineering (2013)
- [5] H. B. Marr, B. Degnan, P. Hasler, and D. Anderson, "Scaling Energy Per Operation via an Asynchronous Pipeline," IEEE Trans. on VLSI 2013



