**Rabbit 8-bit MPU-based devices at the NSCL**

***Currently over 300 Rabbit-based controllers in operation!***

**Devices currently using DEBROS**

* **Beam Current Monitor** Monitor 2 independent signals in pico-amp to milli-amp range
* **Dee Voltage Regulator**

Manage a cavity voltage based on RF state

* **Digital Phase** Low-level RF controller incorporating FPGA and DSP
* **ECR Oven** Manage up to 4 independent supplies driving the ECR Oven
* **Low-Level RF Turn On Module** Monitor RF state and spark detectors
* **Modular Power Supply** Manage up to 10 power supplies connected in parallel
* **8-channel Power Supply** Manage up to 8 independent power supplies (unipolar and bipolar)
* **Trim-Coil Power Supply** Manage the polarity and amplitude of variac or SCR-based power supply

**Devices with software not-yet ported to DEBROS**

* **Bang-Bang Servo** Direct control of a Bang-Bang Servo device
* **DC Servo**

Direct PID-based control of a DC Servo motor

* **Microwave Amplifier** Direct PID-based control of a Klystron-based power supply
* **RF Phase** Older analog-based phase controller
* **RF Servo**

Direct PID-based control of a DC or Bang-Bang servo

* **Reversing Switch Power Supply** Manage state, output, and polarity of a power supply