Set up Phase-Lock Loop, RTC, Serial, Interupts Initialization of Ports / Variables Sample MAP sensor and save as Barometer Copy Configuration and VE variables from Flash to RAM Copy Flash Burn Routine from Flash to RAM Main Loop: Perform Table Lookup for Barometer and Air Density Correction Perform Table Lookup for Coolant and MAP Linearization Determine if in Fast-Idle Mode Compute RPM, Determine if Engine is Cranking or Running and Flood-Clear	Increment 100 Microsecond Count Check for New Injection Event Check for Injection Event Complete Check for PWM Enable Event Check RPM and Turn Off Pump If Engine Stalled Check/Increment Milliseconds Initiate New ADC Conversion Check/Increments 0.1 Seconds Check/Increment Seconds
Calculate Warmup and After-start Enrichment Calculate Acceleration Enrichment/Enleanment	Timer Interrupt Routine
Calculate EGO Enrichment Calculate VE from 2-D Table Interpolation Compute Total Enrichment Value (Accel, Baro, Air Density, EGO, and Warmup) Compute VE Contribution	Increment ASE and EGO Step Counters Enable Fuel Pump Check for Injection Enable and Schedule Injection
Compute MAP/Baro Calculate REQ_FUEL	IRQ Interrupt Routine
Calculate Battery Voltage Compensation Calculate Final Pulse Width Goto Main Loop	Retrieve New ADC reading Average with last ADC reading, and Store Increment ADC Channel Pointer
Initialization and Main Calculation Loop	ADC Conversion Complete Interrupt Routine
	Retrieve SCI Character If "A" Then Enable Transmit of All Real-Time Variables If "B" Then Jump to Flash Burn Routine If "C" Then Enable Transmit of SECL variable If "V" Then Enable Transmit of Entire VE Table If "W" Then Receive Offset and New Byte to Save
Ordered Table Search Routine	SCI Receive Interrupt Routine
Linear Interpolation Routine 32 X 16 Unsigned Multiply Flash Programming Routine	Transfer Byte to Transmit Register If Last Byte to Transmit, then Disable Transmit Mode
Subroutines	SCI Transmit Interrupt Routine

MegaSquirt Embedded Microcode Flow Description