START
Show banner
Set up phase map.
Set up interrupts.
Set up ports.
Set up statistic structures.
End
ISR: Byte Received
Get byte (key press)
Update attributes from key press
End
ISR: 1sec timer expired
Get statistics
Show statistics
End
ISR: Shaft moved
Read sensors
Empty read?
Yes
End
No
Reset field output
Store Position
Update statistic data
End
ISR: Timer Expired
Stop timer interrupt
Just done mark?
Yes
Set space
No
Set BLDC mark from stored position set in sensor read
Set space period
Set mark period
Reset field output
Restart timer interrupt
Update statistic data
End
ISR: Control Read
Get ADC channel index
Channel 0?
No
Store space value
Yes
Store mark value
Update statistic data
Set to read other channel and start
End