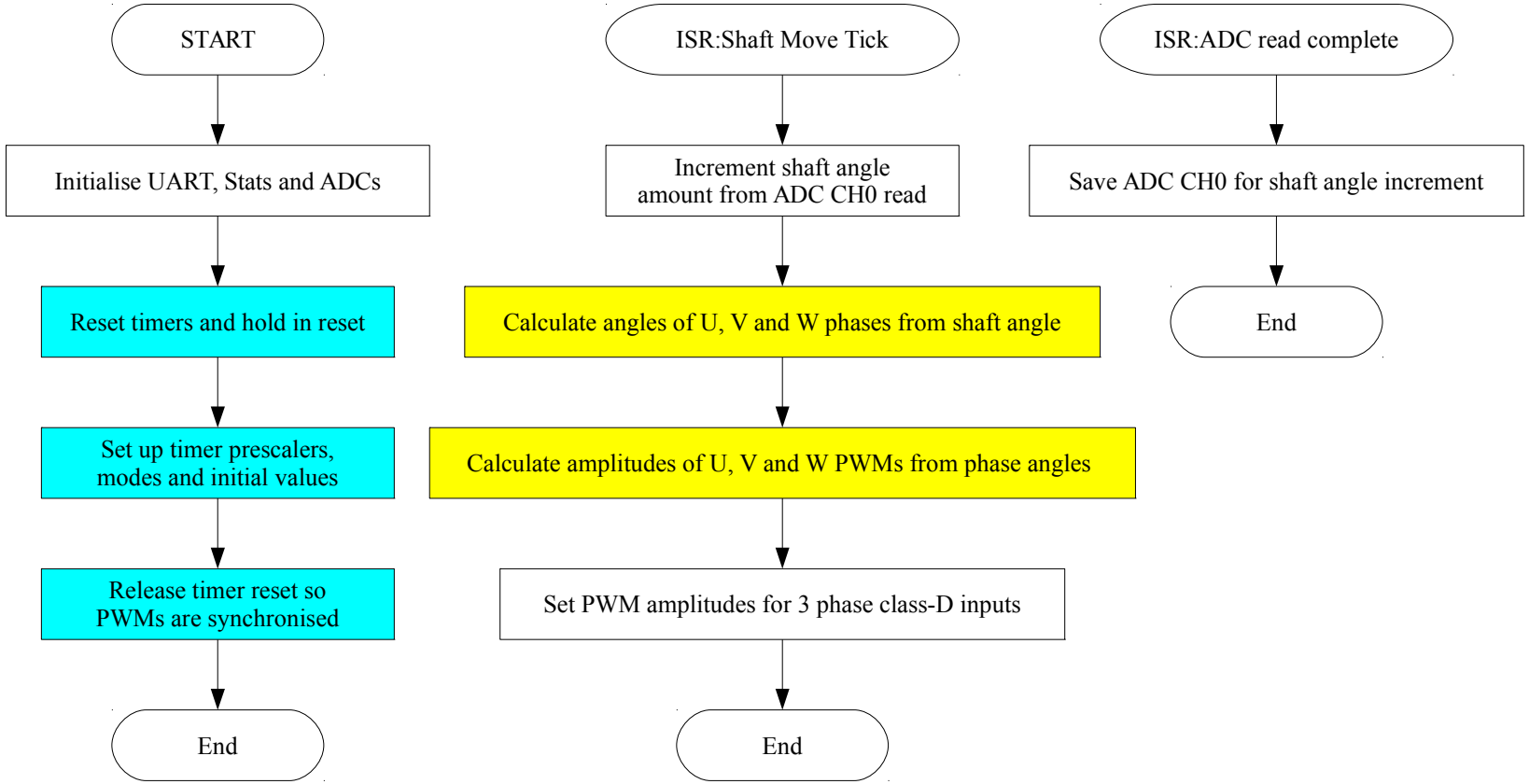
START
Initialise UART, Stats and ADCs
Reset timers and hold in reset
Set up timer prescalers, modes and initial values
Release timer reset so PWMs are synchronised
End
ISR:Shaft Move Tick
Increment shaft angle amount from ADC CH0 read
Calculate angles of U, V and W phases from shaft angle
Calculate amplitudes of U, V and W PWMs from phase angles
Set PWM amplitudes for 3 phase class-D inputs
End
ISR:ADC read complete
Save ADC CH0 for shaft angle increment
End