**----Start\_PreOS Sequence----**

1. Callout EcuM\_AL\_SetProgrammableI interrupts (On ECUs with programmable interrupt priorities, these priorities must be set in this phase).
2. Callout EcuM\_AL\_DriverInitZero (This callout initializes BSW modules that do not use post-build configuration parameters. The callout may not only contain driver initialization but also any kind of pre-OS, low level initialization code).
3. Callout EcuM\_DeterminePbConfiguration.
4. Check consistency of configuration data (By checking that the pre-compile and link-time parameter settings used when compiling the code are exactly the same as the pre-compile and link-time parameter settings used when configuring and compiling the post-build parameters). If check fails the EcuM\_ErrorHook is called.
5. Callout EcuM\_AL\_DriverInitOne (The callout may not only contain driver initialization but also any kind of pre-OS, low level initialization code).
6. Get reset reason (The reset reason is derived from a call to Mcu\_GetResetReason and the mapping defined via the EcuMWakeupSource configuration containers).
7. Select default shutdown target.
8. Callout EcuM\_LoopDetection (If check fails the EcuM\_ErrorHook is called).
9. Start OS.

**----Off\_PreOS Sequence----**

1. Start BSW Scheduler.
2. Init BSW Mode Manager.
3. Init BSW Scheduler (Initialize the semaphores for critical sections used by BSW modules).
4. Start Scheduler Timing (Start periodical events for BSW/SWCs).