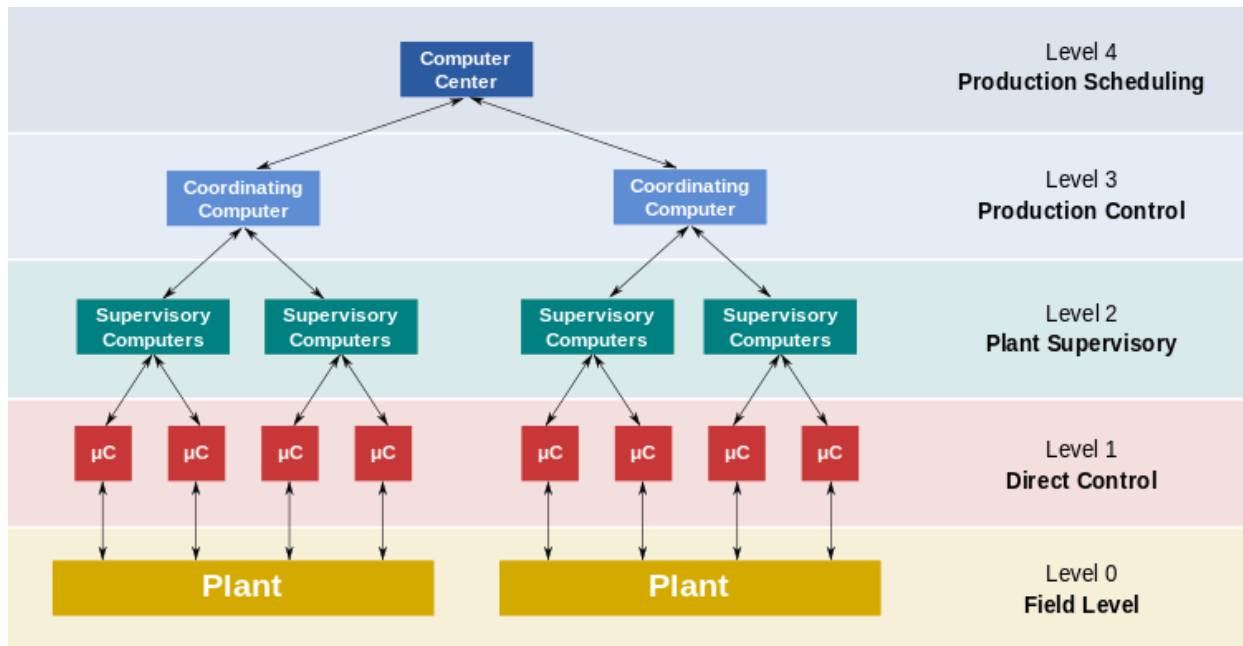




DCS

DCS structure

The structure of a DCS can be clearly explained at each level and almost all manufacturer makes the 5 level DCS system. The 5 levels are described below.



Level 0: This level is included with field equipment like final control components like control valves, temperature sensors, and flow elements.

Level 1: Level 1 contains the technologically advanced Input/Output (I/O) modules, and their associated distributed electronic processors.

Level 2: This level contains the supervisory computers, which collect information from processor nodes on the system, and provide the operator control screens.

Level 3: It is the production control level, which does not directly control the process, but is concerned with monitoring production and monitoring targets. Normally, we cannot change control operations from this level. It can only display information for management overview.

Level 4: This is the production scheduling or Group management level.

Levels 1 and 2 are the functional levels of a traditional DCS, in which all equipment are part of an integrated system from a single manufacturer.

Levels 3 and 4 are not strictly process control in the traditional sense, but where production control and scheduling takes place.