In such area as Formula 1 computers are used everywhere: to design the machine, to control its during the Race, to create perfect tactic to get the win.

In creating the machine urgent engineers uses modern methods of projecting. One of them is computer-based designed system computational fluid dynamics (CFD). This is a form of computer analysis, that use a computer representation of the effect of the wind on the car to create aerodynamics elements – visible parts of bolide that influences on its speed without changing power of engine.

As one of the most technologically advanced sport, formula 1 cars have the best computing systems and solutions, that you can imagine. Every Formula 1 cars on the grid is dependent upon sophisticated electronics to govern its many complex operational systems. Each Formula 1 car has over a kilometer of cable, linked to about 100 sensors and actuators which monitor and control many parts of the car.

The electronic control unit (ECU) is the brain of a modern Formula 1 car. It is of size of a book and sits inside the side pod and manages the flow of information generated by telemetry sensors, traction control and other devices on the car.

On the car there are a lot of sensors and processors producing data during tests, practices and races. The electronic system has to take all this information in and then process it in order to control different parts of the car. It controls the engine, the gearbox, the throttle-by-wire, the clutch and the differential.

With analyze system team of racing engineers can take the necessary decisions to change tactic after changing some externals.

Judges use computers to record the time, control the rules, watching replays to solve controversies.

So, computers are very important in such sport as Formula 1.

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