DISK DRIVE, SERVO CONTROL UNIT, AND CONTROL UNIT

ABSTRACT

To reduce processing load to an MPU without increasing cost so much and easily realize high-degree servo control.

An analog/digital (AD) converter (ADC) (16) performs the AD conversions of the regenerated levels A, B, C, and D of burst patterns supplied from a channel (5) and retains the converted levels in an ADC register (17). A servo assist (SA) (23) computes parameters, such as the position error of a head (2), independently of an MPU (12), based on the regenerated levels of the burst patterns retained in the ADC register (17) and an instruction from the MPU (12) retained in a SRAM (24). Based on the computed parameters, the SA (23) computes servo data (DACOUT) for driving a voice coil motor and supplies the servo data to the DAC section of a VCM driver section 6 through a SIO (22).

Fig. 1