

FIGURE 2.2

Registers in the Cortex-M3.

2.2.3 R14: The Link Register

When a subroutine is called, the return address is stored in the link register.

2.2.4 R15: The Program Counter

The program counter is the current program address. This register can be written to control the program flow.

2.2.5 Special Registers

The Cortex-M3 processor also has a number of special registers (see Figure 2.3). They are as follows:

- Program Status registers (PSRs)
- Interrupt Mask registers (PRIMASK, FAULTMASK, and BASEPRI)
- Control register (CONTROL)

These registers have special functions and can be accessed only by special instructions. They cannot be used for normal data processing (see Table 2.1).