Table 1.1 Classes of Interrupts

instruction execution, such as arithmetic overflow, division by zero, attempt to execute an illegal machine instruction, and

reference outside a user's allowed memory space.

Timer Generated by a timer within the processor. This allows the

operating system to perform certain functions on a regular basis.

I/O Generated by an I/O controller, to signal normal completion of an

operation or to signal a variety of error conditions.

Hardware failure Generated by a failure, such as power failure or memory parity

error.