

-O0 (fastest compile time)	-O1	-O2	-O3 (fastest run time)
77	208	212	212

**FIGURE 2.45** Performance over the Python program on page 49 for the C program in Figure 2.43 as we increase the level of optimization of the GCC C compiler, with -O0 doing no code size or performance optimization, thereby improving compile time and -O3 being most aggressive for run time and code size. In this case, -O2 and -O3 produce the same x86 code. Most programmers use -O2 as the default compiler flag. GCC also offers a -Os optimization option, which aims at smallest code size.