Reduced Instruction Set Computer Architecture

WILLIAM STALLINGS, SENIOR MEMBER, IEEE

Since the content days of the computer era, the general trend is computer analytic transport and organization has been toward increasing CPU complexity. Imper instruction total, more addressing modes, more specialized registers, and the file. However, in the past terral peace, there has been increasing interest in an innovative apparatch to computer supplication and instruction and computer (SMSC). The interested performance benefits of RSSC, compared to a more conventional approach, include more effective compared to a more conventional approach, include more effective compared in a respective of interested performance of the RSSC approach respective probleming, and improved respective of observables. Key characteristics of the RSSC approach include a limited and interior exists in the use of editors. Interior an application of complete a large number of registers and estimates the use of registers and estimates and estimates

This paper personns a tutorial on the RISC approach and high-lights the key disage insues involved in RISC achievance. We begin by looking at the results of a number of studies on the instruction execution of compiled high-level language programs. The results of these souther implied the RISC movement. The paper then summarizes approaches to three lay RISC design names: optimized degister usuge, reduced instruction sets, and pipelining. At exemples, an experimental system, the Berlinds RISC, and a commercial system; the RISC MOSO, are presented. The paper closes with a discussion of the RISC versus CISC (complete instructions act computed continuously.

1. Introopy, comow.

Since the development of the stored-program computer around 1950, there have been remarkably few true innovations in the areas of computer organization and architecture. One of the most interesting and, potentially, one of the most important innovations is the reduced instruction set computer (RISC). The RISC architecture is a dramatic departure from the historical trend in CPU architecture and challenges the conventional wisdom expressed in words and deeds by most computer architects. An analysis of the RISC architecture brings into focus many of the important issues in computer organization and architecture.

Most of the work has been on experimental systems, but commercial RISC systems have begun to appear [1]-[12].

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Recently, both IBM furth its RT PCI and Hewlett-Packard (with its 900 series) have introduced machines that have both RDC and conventional characteristics [13], [14]. Although RPSC systems have been defined and designed in a variety of ways by different groups, the key elements shared by most foot all) designs are these:

- a limited and simple instruction set;
- the use of either a hardware or compiler strategy to maximize the use of registers and minimize references to main memory.
- am emphasis on optimizing the instruction execution pipeline.

This paper surveys key design issues relating to RISC architecture. To begin, we present a brief survey of some results on instruction sets that inspired much of the RISC work.

M. Instruction Engumen Crosscriptstacs

One of the most visible forms of evolution associated with computers is that of programming languages. As the cost of hardware has dropped, the relative cost of software has risen. Along with that, a cheonic shortage of programmers has driven up software costs in absolute terms. Thus the major cost in the life cycle of a system is software, not hardware. Adding to the cust, and to the inconvenience, is the element of unreliability: it is common for programs, both system and application, to continue to exhibit new bugs after years of operation.

The response from researchers and industry has been to develop ever more powerful and complex high-level programming languages (sompare Fortran to Ada). These high-level languages (HLD) allow the programmer to express algorithms more concisely, take care of much of the detail, and often support naturally the use of structured programmine.

Alas, this solution gave rise to another problem, known as the semantic gap, the difference between the operations provided in Hills and those provided in computer architecture. Symptoms of this gap are alleged to include execution inefficiency, excessive program size, and compiler complexity. Designers responded with architectures intended to close this gap. Key features include large

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