Reduced Instruction Set Computer Architecture

WILLIAM STALLINGS, SENIOR MEMBER, IEEE

Since the earliest days of the computer era, the general trend in computer authiticiture and organization has been toward increasing CPU complexity. Inger instruction sets, more attrivial inger instruction sets, more appealabled registers, and the like. However, in the past terveral press, those has been increasing instruction as immovement to computer softmentum. The reduced instruction are computer (RSC). The intended performance benefits of RSC, compared to a more conventional approach, include more effective pipelining, and improved response to interrupts. Rey characteristics of the RSC, approach includes a limited and simple instruction set the use of either a large number of registers incurded or an optimizing compile, to maximize the use of registers and minimize references to main memory; an emphasis on optimizing the instruction execution pipeline.

This paper personns a tutorial on the RISC approach and high-lights the tay finage 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 toy 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 MOSC paper closes with a discussion of the RISC venus CISC (complete instruction set computed continuents).

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].

Manuscript received December 3, 1986; revised August 21, 1987. The submission of this paper was encouraged after severe of an advance proposal.

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JEEE Log Number 6717581.

Recently, both IBM twith its RT PCI and Hewlett-Packard owith its 900 series have introduced machines that have both RESC and conventional characteristics [13], [14]. Although RESC systems have been defined and designed in a variety of ways by different groups, the key elements shared by most inot 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 Engineer 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 (compare Fortran to Ada). These high-level languages (HLL) allow the programmer to express algorithms more concisely, take care of much of the detail, and often support naturally the use of structured programming.

Alas, this solution gave rise to another problem, known as the semantic gap, the difference between the operations provided in HLLs 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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Subject Guide to Books in Print ,2001 International Handbook on Child Rights and School Psychology
Bonnie Kaul Nastasi, Stuart N. Hart, Shereen C. Naser, 2020-05-18 This handbook examines the meanings implications and
transformative potential of a child rights approach for school psychology It focuses on the school community in which
psychology is committed to promoting well being learning and development of all children The handbook begins with an
overview of the 1989 United Nations Committee on the Rights of the Child CRC and explores main themes such as survival
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