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material encompasses making  
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editor; and the gdb  
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for introductory computer architecture courses, but for programmers who will be programming SPARC architecture machine in languages such as C and C++.

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assembly language programming and computer architecture. This is based on the notion that it is not possible to study computer architecture in any depth without some knowledge of assembly language programming and similarly, one of the reasons for studying assembly language programming is to gain an insight into how computers work - which naturally leads to their architecture. Introducing Assembly Language Programming and Computer Architecture is ideal for first year computer science or engineering students taking degree and diploma level

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courses. It will also be a useful reference for computer enthusiasts wishing to advance their knowledge and programming skills.

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language extension and for that reason many Laptop and Server manufactures are introducing ARM-based Laptop and Servers. Who will use our textbook? This book is intended for both academic and industry readers. If you are using this book for a university course, the support materials and tutorials can be found on [www.MicroDigitalEd.com](http://www.MicroDigitalEd.com). This book covers the Assembly language programming of the ARM chip. The ARM Assembly language is standard regardless of who makes the chip. The ARM licensees are free to implement the on-chip peripheral (ADC, Timers, I/O, etc.) as they

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The increasing complexity of programming environments provides a number of opportunities for assembly language programmers.

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supersets that bring the 80x86 processor into the realm of the supercomputer, gives insight into the FPU (floating-point unit) chip in every Pentium processor, and offers strategies for optimizing code.

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The objective of this book is to make it possible (and even easy) for students to

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master both assembly language and the fundamentals of computer architecture in a single semester. Integrating coverage of software and hardware throughout, the book uses H1--a simple, horizontally microprogrammed computer--as a unifying theme. Like all simple models, H1 has flaws, but this book puts these flaws to good use. In particular, in addition to showing students how H1 works and what is wrong with it, the book shows students how to fix it (which they then proceed to do). Students learn best by doing, and this book supplies much to

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do with various examples and projects to facilitate learning. For example, students not only use assemblers and linkers, they also write their own. Students not only study and use the provided instruction set but implement new, improved ones. The result is a book that is easy to read, engaging, and substantial. The software package for the book supports Windows, Mac OS X, Linux, and Raspbian.

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