

Table I.1

The end-to-end arguments from a technical perspective.

Understanding the End-to-End Arguments	Pages
What are the two versions of the end-to-end arguments?	57–75, 377–379
What are the differences between the two versions, and why should we distinguish between the two?	75–81
What is the trade-off underlying the broad version?	68–75, 355–371
Does the broad version differ from the layering principle?	104–105
Does the broad version prohibit quality of service?	106–107
Does the broad version require the network to be stupid or simple?	107
Do the end-to-end arguments prevent state in the network?	105–106
Does the broad version make it more difficult (or even impossible) to make the network secure?	366–368
How can you deviate from the broad version? What does it mean to make the network more controllable or more opaque?	286–287
The End-to-End Arguments and the Architecture of the Internet	Pages
How have the two versions shaped the Internet's original architecture?	90–103, 110–112, 379–381
Is the Internet Protocol general enough?	142, box 4.3
How do the two versions relate to current developments in the Internet, such as the evolution of applications toward a more distributed structure or the proliferation of middleboxes?	383–387, 371–372
Is the trade-off underlying the broad version still appropriate today?	368–371, 355–356
Should the end-to-end arguments continue to guide the Internet's architecture as a technical design principle?	388–389

readers but not to others. For example, engineers will already know about modularity, the layering principle, and the architecture of the Internet, and lawyers, economists, and management scientists will already know how transaction costs influence the boundary choices of firms. I hope that my headings and introductions will help readers recognize things they already know and help them get to what they do not know.

The book can be read straight through, from cover to cover. But one may also follow some of the more specific conceptual threads that run through the book. The first thread explores the end-to-end arguments from a technical perspective (table I.1). The second thread analyzes the social value of architectures based on the broad version of the end-to-end arguments and the resulting policy implications (table I.2).¹⁷ The third thread explores aspects of the approach to “architecture and economics” (box I.1) advanced by the book. Within the framework described in

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