131. Finally, Microsoft made its frustration known to IBM by reducing, from three to one, the number of Microsoft OEM account managers handling Microsoft's operational relationship with the IBM PC Company. This reduced support impaired still further IBM's ability to test, manufacture, and ship its PCs on schedule, further delaying IBM's efforts to bring its PC products to market against the competition in a timely manner.

132. In sum, from 1994 to 1997 Microsoft consistently pressured IBM to reduce its support for software products that competed with Microsoft's offerings, and it used its monopoly power in the market for Intel-compatible PC operating systems to punish IBM for its refusal to cooperate. Whereas, in the case of Netscape, Microsoft tried to induce a company to move its business away from offering software that could weaken the applications barrier to entry, Microsoft's primary concern with IBM was to reduce the firm's support for software products that competed directly with Microsoft's most profitable products, namely Windows and Office. That being said, it must be noted that one of the IBM products to which Microsoft objected, Notes, was like Navigator in that it exposed middleware APIs. In any event, Microsoft's interactions with Netscape, IBM, Intel, Apple, and RealNetworks all reveal Microsoft's business strategy of directing its monopoly power toward inducing other companies to abandon projects that threaten Microsoft and toward punishing those companies that resist.

D. Developing Competitive Web Browsing Software

133. Once it became clear to senior executives at Microsoft that Netscape would not abandon its efforts to develop Navigator into a platform, Microsoft focused its efforts on ensuring that few developers would write their applications to rely on the APIs that Navigator exposed. Developers would only write to the APIs exposed by Navigator in numbers large enough to threaten the applications barrier if they believed that Navigator would emerge as the standard software employed to browse the Web. If Microsoft could demonstrate that Navigator would not become the standard, because Microsoft's own browser would attract just as much if not more usage, then developers would continue to focus their efforts on a platform that enjoyed enduring ubiquity: the 32-bit Windows API set. Microsoft thus set out to maximize Internet Explorer's share of browser usage at Navigator's expense.

134. Microsoft's management believed that, no matter what the firm did, Internet Explorer would not capture a large share of browser usage as long as it remained markedly inferior to Navigator in the estimation of consumers. The task of technical personnel at Microsoft, then, was to make Internet Explorer's features at least as attractive to consumers as Navigator's. Microsoft did not believe that improved quality alone would depose Navigator, for millions of users appeared to be satisfied with Netscape's product, and Netscape was known as 'the Internet company.' As Gates wrote to Microsoft's executive staff in his May 1995 "Internet Tidal Wave" memorandum, "First we need to offer a decent client," but "this alone won't get people to switch away from Netscape." Still, once Microsoft ensured that the average consumer would be just as comfortable browsing with Internet Explorer as with Navigator, Microsoft could employ other devices to induce consumers to use its browser instead of Netscape's.

135. From 1995 onward, Microsoft spent more than \$100 million each year developing Internet Explorer. The firm's management gradually increased the number of developers working on Internet Explorer from five or six in early 1995 to more than one thousand in 1999. Although the first version of Internet Explorer was demonstrably inferior to Netscape's then-current browser product when the former was released in July 1995, Microsoft's investment eventually started to pay technological dividends. When Microsoft released Internet Explorer 3.0 in late 1996, reviewers praised its vastly improved quality, and some even rated it as favorably as they did Navigator. After the arrival of Internet Explorer 4.0 in late 1997, the number of reviewers who regarded it as the superior product was roughly equal to those who preferred Navigator.

E. Giving Internet Explorer Away and Rewarding Firms that Helped Build Its Usage Share

136. In addition to improving the quality of Internet Explorer, Microsoft sought to increase the product's share of browser usage by giving it away for free. In many cases, Microsoft also gave other firms things of value (at substantial cost to Microsoft) in exchange for their commitment to distribute and promote Internet Explorer, sometimes explicitly at Navigator's expense. While Microsoft might have bundled Internet Explorer with Windows at no additional charge even absent its determination to preserve the applications barrier to entry, that determination was the main force driving its decision to price the product at zero. Furthermore, Microsoft would not have given Internet Explorer away to IAPs, ISVs, and Apple, nor would it have taken on the high cost of enlisting firms in its campaign to maximize Internet Explorer's usage share and limit Navigator's, had it not been focused on protecting the applications barrier.

137. In early 1995, personnel developing Internet Explorer at Microsoft contemplated charging OEMs and others for the product when it was released. Internet Explorer would have been included in a bundle of software that would have been sold as an add-on, or "frosting," to Windows 95.