

Title	A Study of Regular Transmission Delay in Bluetooth Communications
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Abstract	This research studies a special case of transmission delay when two devices communicate by Bluetooth technology. Transmission delays of packets are usually distributed randomly over some range, or the delay jitter, in wireless or wired communication. However, it is observed that under certain conditions, the transmission delays of consecutive packets may form into parallel dotted lines, and the intervals between a line and its next one are almost the same. The characteristics of the dotted-line delays, like the lifetime of one dotted line, are deduced to help develop an algorithm for detecting the period of this phenomenon. Experiments are further conducted to reveal how factors like operating system, packet sending period, and Bluetooth chips may affect the pattern of regular transmission delays
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