What is Computation? Leslie Lamport, Microsoft Research Amphi 15 4, place Jussieu 75005 Paris Metro Jussieu 28 juin 2012 - 18h00 We depend on computer systems that are not dependable. No one knows how to solve this problem, and I don't pretend to. But a better understanding of what those systems do just might help a little. The tool that people have been using for centuries to understand such things is math. I will use very simple math to explain what computation is. Dr. Lamport's initial research in concurrent algorithms made him wellknown as the author of LaTeX, a document formatting system for the ever-diminishing class of people who write formulas instead of drawing pictures. He is also known for writing "A distributed system is one in which the failure of a computer you didn't even know existed can render your own computer unusable." which established him as an expert on distributed systems. Among his other contributions is the TLA+ specification language, which represents a Quixotic attempt to overcome computer scientists' antipathy towards mathematics. contact : colloquium@lip6.fr http://colloquium.lip6.fr





