Séminaires du LAAS-CNRS

Laboratoire d'Analyse et d'Architecture des Systèmes du CNRS

INNOVATIVE INTERNET TRANSPORT PROTOCOLS

par

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résumé de l'exposé

For thirty years, TCP and UDP have provided distributed Internet applications with an ability to communicate - reliably and unreliably, respectively. During this period, many innovative transport layer mechanisms have been investigated in research laboratories, however, only a few have made their way into practice, and most are incremental performance improvements to TCP's reliable service. Now the Stream Control Transmission Protocol (SCTP) is close to becoming a third transport layer option for applications to choose from. This talk introduces SCTP and overviews three research projects at the University of Delaware involving transport layer multihoming and multistreaming.

l'orateur

Paul D. Amer received his PhD in computer and information science in 1979 from The Ohio State University. Since then, he has been at the University of Delaware's (UD) Department of Computer and Information Sciences. Prof. Amer's research in transport layer services and protocols has been supported by NSF, ONR, ARO, NBS, Connectiv, CISCO, and most recently by two grants over thirteen years from the U.S. Army Research Laboratory bringing $9.2M to the University of Delaware. Prof. Amer has spent three one-year sabbaticals in France; in Paris (1985) at ENST and l'Agence de l'Informatique helping define the Estelle formal description technique; in Toulouse (1992) at LAAS du CNRS investigating a partial order transport protocol to support multimedia applications (RFC1693); and again in Toulouse (1999) at LAAS and ENSICA investigating network-conscious image compression. In 1996, Prof. Amer received a UD Center for Advanced Studies Research Fellowship given annually to four senior faculty members to dedicate one year towards full-time research. In 2001, he received the UD Arts and Science College Outstanding Scholar Award given annually to one A&S faculty member out of 400+ in recognition of career scholarship excellence. In 2002, he received the UD Excellence-in-Teaching Award given annually to four faculty members out of 1000+ in recognition of career teaching excellence. In 2006, Prof. Amer was named 'Alumni Distinguished Professor' in recognition of career scholarship, teaching, and service excellence.