

# Georgia Tech Sponsored Research

<b>Project</b>	C-36-W28
<b>Project director</b>	Schwans                      Karsten
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## Final Report on IR-DOMS Subcontract

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This final report summarizes the work performed at Georgia Tech under subcontract from Systran Corporation from April 1, 1997 to March 31, 1998.

- Georgia Tech provided input to Systran on real-time communications and their integration with real-time communications via the Systran Scramnet and FiberExpress communication media.
- Georgia Tech provided input to Systran on the use of the ORB-core for implementation of the applications.
- Georgia Tech constructed and delivered an ORB-core software system resident on SUN Solaris machines and on Pentium-based NT machines. This ORB-core contains:
  - an object transport layer supporting the invocation of objects across the proposed heterogeneous Pentium and SUN platforms and across the heterogeneous Solaris and NT operating systems,
  - basic object location services supporting the dynamic creation and finding of objects on these platforms,
  - sample objects exercising this functionality across at least three different machines, one of which will be an NT Pentium machine,
  - IDL-based and therefore, CORBA-compliant programming tools exposing object interfaces, supporting the marshaling of object invocations to the support offered by the object transport layer, and supporting the specification of real-time attributes stated in conjunction with object creation and invocations,

- support for distributed event services, implementing in part the CORBA event service specification,
- the ability to store the contents of selected objects in secondary storage media, using files.

The ORB-core and other software is available to Systran at <ftp://ftp.cc.gatech.edu/pub/groups/systems/chaos/otl/compiler.tar.Z>