

## Is security important to customers?

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Another Example :

- Northeast manufacturing firm loses \$1 Billion contract, because competitor broke into its network of Unix Workstations and learned what it planned to bid (Information Week, 10/24/94) :
    - Intrusion detected only after the fact by processing audit trail data.
    - By the time it was detected, the company had already lost the bid.
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## Is security important to customers?

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Yes. Here is an example why:

- MCI loses estimated \$50M due to insider attack against network communications (USA Today, 10/4/94) :
  - Switch Technician modified switch software to gather more than 60,000 calling card numbers.
  - Calling card numbers were not only those from MCI, but also those from Sprint and AT&T, which routed their calls through MCI.

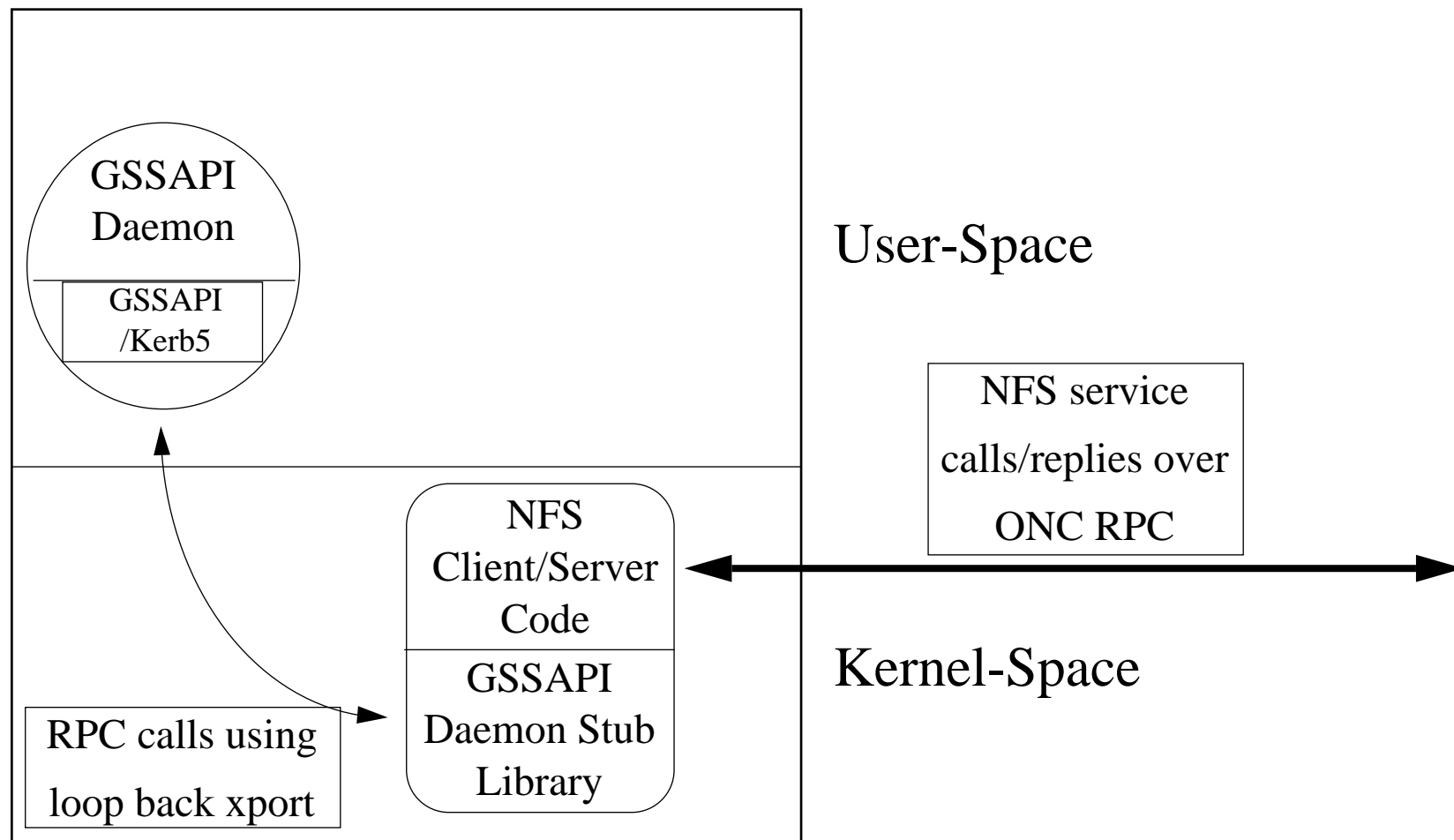
## Where can you get some of the code pieces?

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- GSSAPI
  - Both Open Vision and Cybersafe sell versions of GSSAPI/KerbV5 for Unix.
  - Cybersafe sells a version of GSSAPI/KerbV5 for MS Windows.
  - MIT is working on GSSAPI interface to Kerberos V5 for MS Windows and Macintosh - due out this summer.
- Kerberos V5 KDC
  - Both Open Vision and Cybersafe sell KDCs along with administration tools.

# Incorporating Kerberos V5 into NFS

The GSSAPI/Kerb5 Libraries are too large for the kernel.



# Incorporating GSSAPI into ONC RPC

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Application Specific		
ONC RPC		
auth_krb5	auth_future	other auth code
Common code for GSSAPI based auth flavors		
GSSAPI		
Kerb5 Library	Future Library	



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# **New Security Services for ONC+**

**CONNECTATHON '95**

**Birds of a Feather Session**

Dan Nessett

Security Group

Enterprise Networking Group

SunSoft

Enterprise Networking Group