

# Remote Procedure Calls - Disposition

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RMI = RPC except that RMI operates on object instead of applications.

## 1 RPC

### 1.1 Difference between before and now

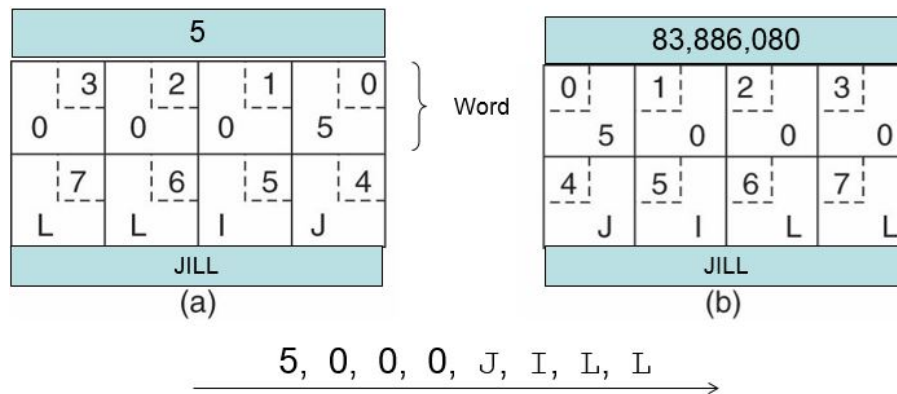
- Transparent.
- Looks like normal procedure calls.
- Doesn't have to build directly over the internet primitives.

### 1.2 Sequence

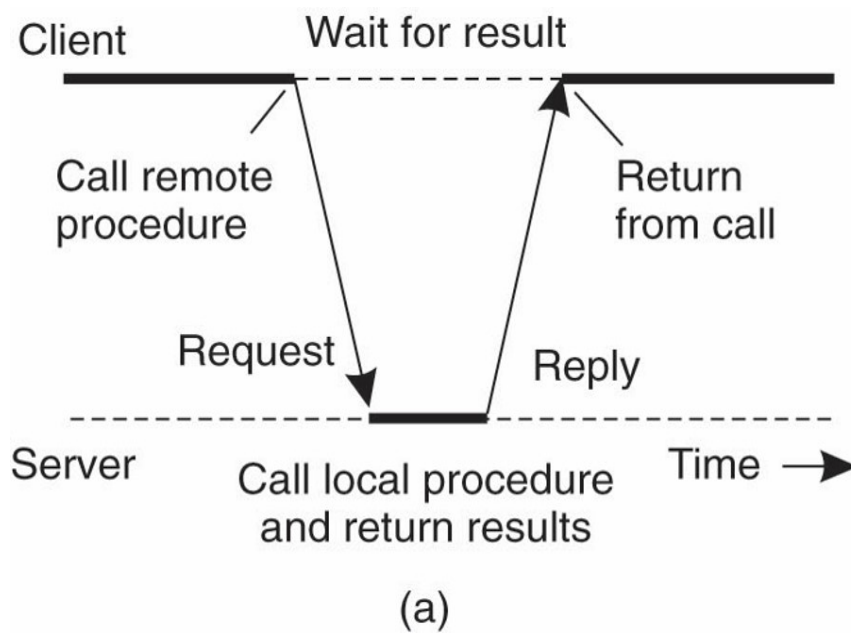
1. Client calls **client-stub**.
2. **Client stub** packs parameters into a message and makes a system call to send the message. (Packing is called marshallling).
3. Client OS sends the message.
4. Server OS passes the incoming message to the **server-stub**
5. **Server stub** unpacks the parameters. (Unpacking is called unmarshalling).
6. **Server stub** the server procedure

## 2 Marshalling

Example, 32-bit Intel to 32-bit SPARC (each field represents 1 byte (8 bits)).



### 3 Synkron vs Asynkron



### 3.1 Callback style

