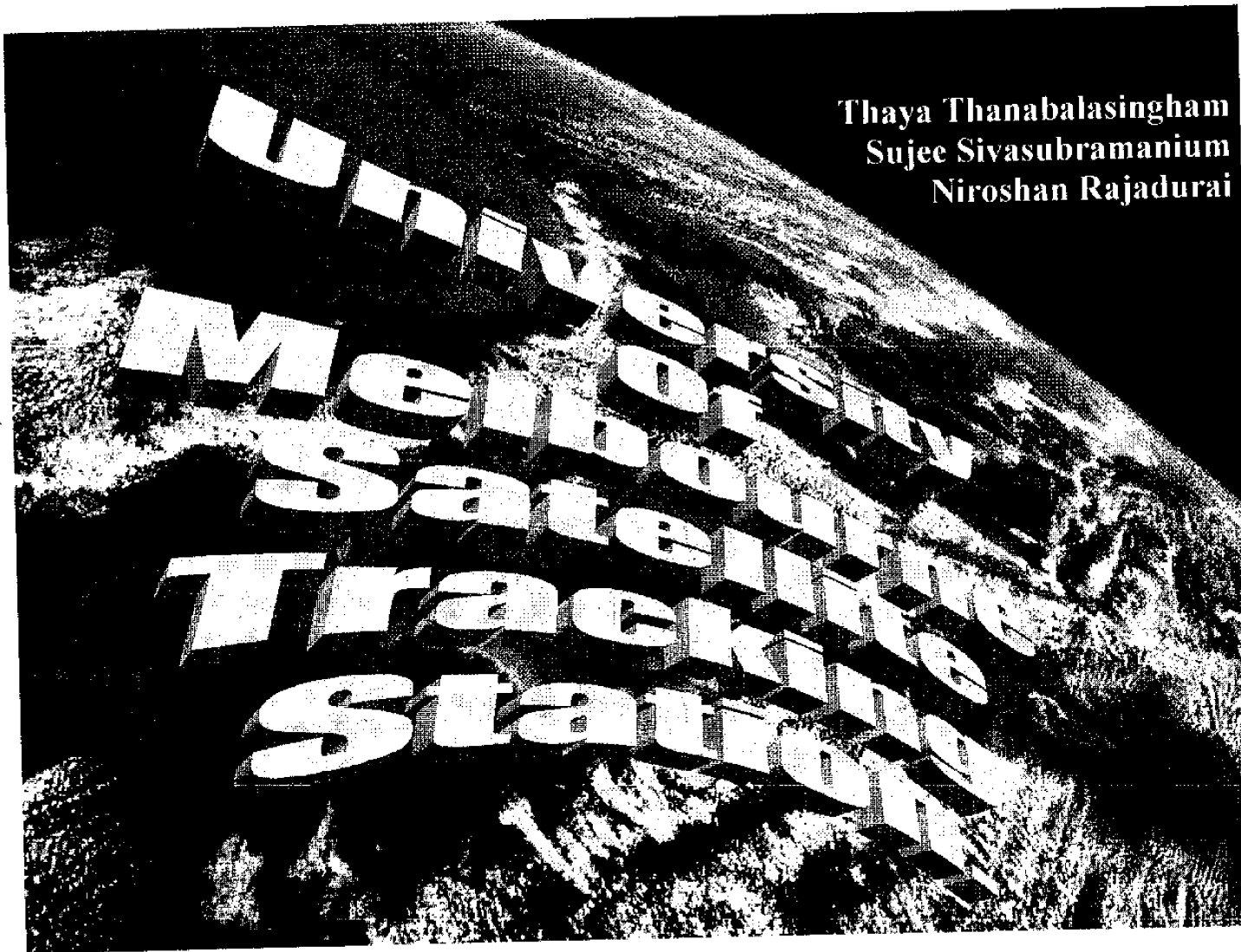
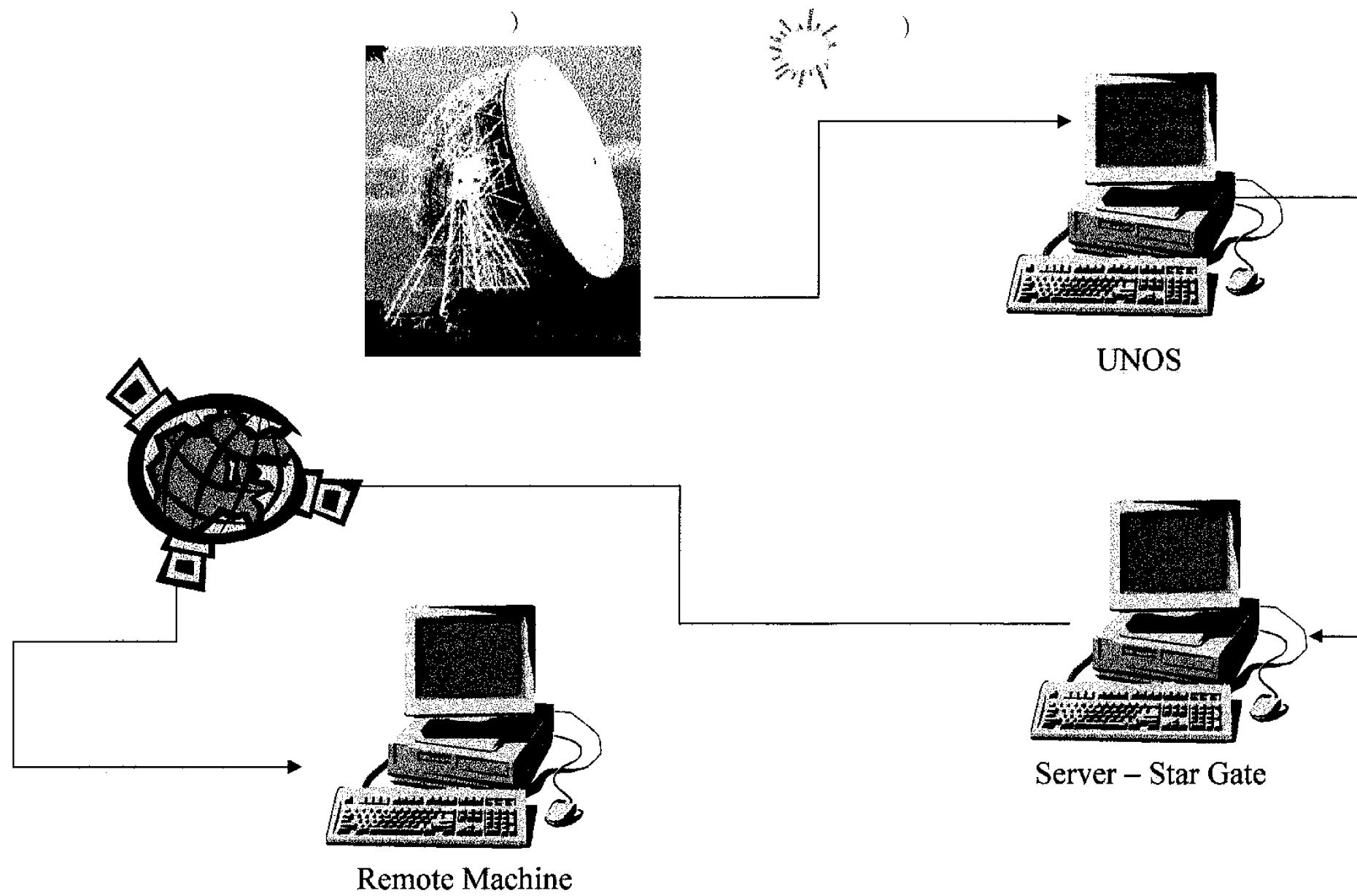


Thaya Thanabalasingham
Sujee Sivasubramaniam
Niroshan Rajadurai





Current Setup - Break Down

- Three different parts of project:
 - UNOS
 - located in tower, real time O/S
 - Server
 - located on roof, Linux (DELL Server)
 - Remote Machine
 - located any where on the world, any O/S

Current Setup - UNOS

- Simulation/real-time control of the dish
- reliable & efficient control system
- communicate with server (unstable)
- dos style user interface and control

Current Setup - Server

- O/S = Linux 1.x (oldest version)
- no web server (i.e. no internet access possible to PC)
- communicate with UNOS PC (unstable)
- remote login only (i.e. telnet)

Current Setup - Remote Machine

- ??
- nothing done at this stage
- can only telnet into server
- no feedback of antenna status

Who's Doing What At This Stage?

- Thaya - tracking algorithms
- Niroshan - setting up server & homepage
- Sujee - Netscape G.U.I.

Future Setup -UNOS

- Tracking satellites
- communicate with server (stable)
- presentation of antenna control user interface more graphical and mouse driven (i.e. Win95 style)

Future Setup - Server

- Communicating with UNOS PC (stable)
- setup home page - can currently be found at
'<http://www.ecr.mu.oz.au/~ncr/>'
- reliable & efficient server
- communicating with internet
- user accounts

Future Setups - Remote Machine

- Setup user interface for antenna (graphical)
- communicate with server
- stability of web page
- protection/authorization

Future Setups - The Internet

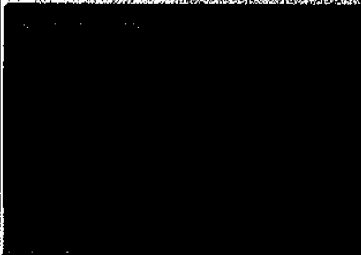
- God Help Us!!!!

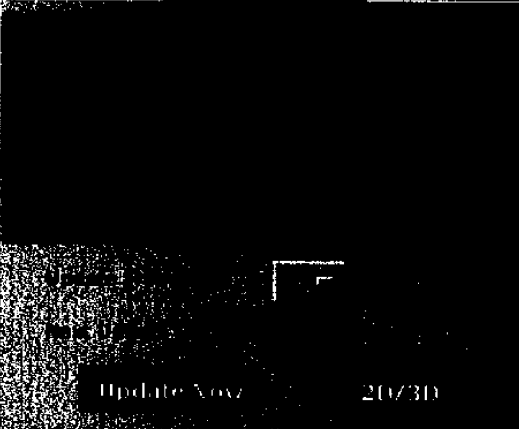
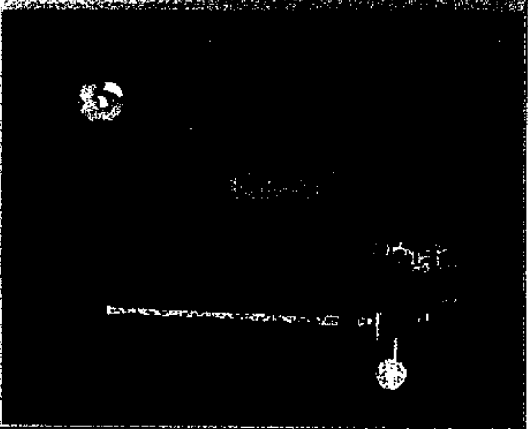
Applet

UniMel - Tracking Centre

<input checked="" type="checkbox"/> Manual Tracking		Admission	Release
<input checked="" type="checkbox"/> Satellite Tracking		NER	Release
<input checked="" type="checkbox"/> Star Tracking		Sun	Release
<input type="button" value="Track"/>		<input type="button" value="Stop"/>	<input type="button" value="Reset"/>

Fr Mar 27 11:50:41 EST 1998





Update View 20/3D

Applet started.

Questions?

- Name for the server?
- Criticisms of G.U.I.
- General Questions from group.

Radio Telescope Project

IBC 5

New direction to be taken....

RT - Linux as opposed to UNOS

**Reasons of UNOS being
scrapped**

UNOS - Why it failed...

- **Poorly written code,**
- **Buggy,**
- **Lack of Documentation**
- **Inherent bugs.**

Project Goals

- **Satellite dish should be controllable via the internet**
- **RT-Linux should be used as the controller for the dish**
- **Full documentation**

Status So Far

- **Hardware is upto date, and 95% stable**
- **Absolute encoders have been implemented, including software**
- **Server is up and running, with Internet control panel**
- **Device drivers for all serial cards have been written in Linux/RT-Linux.**
- **Stable communication upto the PLC has been achieved**

What Needs To Be Done?

- **RT-Linux conversion of all source code**
- **Stable communication between Aishwarya & PLC, DAC & Encoders.**

How Are We Going To Do This?

- **Aishwarya needs to be moved from the roof to the tower**
- **Temporary access to the 'root' password for Stargate - to setup everything**
- **Source code from UNOS can be extracted and reimplemented in RT-Linux - WITH CAUTION!!!!**

Technical Details

- **What are our I/O devices?**
- **What do we have documentation for?**
- **What can be scrapped and upgraded?**

The Master Plan

- **Who wants what part?**
- **When can this be done by?**
- **Time Line...**

[illegible]