Hartebeesthoek 26m
New Computer Control System (NCCS)
TASKLIST - PHASE 1
release 1.0

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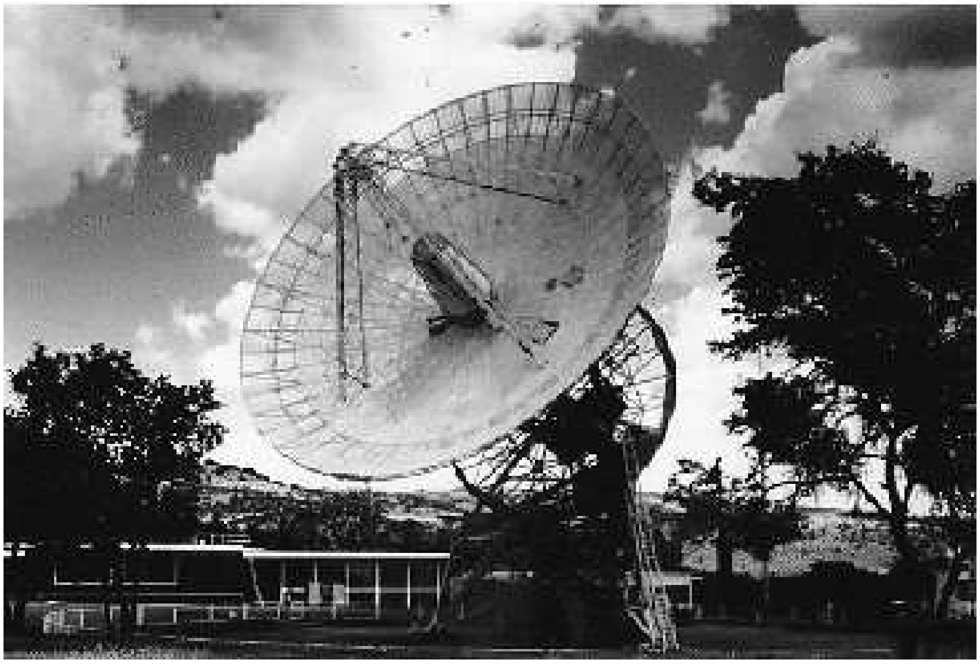

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1 Introduction

At a meeting on 4 July 1996, the first phase of the Hartebeesthoek New Control Computer System (NCCS) was redefined to be the support of VLBI observations using only NCCS components. This document will present a list of all the tasks which have to be done in order to make this happen.

2 Hardware

2.1 Done

Task	Priority	Description	Involves	Duration	Status
PC-STEER Cage	*****	Mechanical Design and Assembly of PC-STEER Cage	K.Jones, J.Quick, P.Stocker	2 months	done
Digital I/O	*****	Develop card to perform Digital Input/Output via PC-STEER Cage interface	K.Jones, J.Quick, P.Stocker	2 months	done
Analogue Inputs	*****	Develop card to read Tachometer and Weather voltages via PC-STEER Cage interface	K.Jones, J.Quick, P.Stocker	2 months	done
Analogue Outputs	*****	Develop card to produce Servo Error voltages via PC-STEER Cage interface	K.Jones, J.Quick, P.Stocker	2 months	done
NASA time code	*****	Develop card to read NASA time code via PC-STEER Cage interface	K.Jones, J.Quick, P.Stocker	2 months	done
Encoder readout	*****	Develop 2 cards to read Encoder serial data via PC-STEER Cage interface	K.Jones, J.Quick, P.Stocker	2 months	done

2.2 To do

Task	Priority	Description	Involves	Duration	Status
PC-STEER Interface Wiring	*****	Documentation and Wiring of PC-STEER Cage Interface to Servo system, Hyperbola and Weather station	K.Jones, P.Stocker	3 weeks	started
PC-STEER Spare Cage	***	Assembly + Wiring of PC-STEER Spare Cage	K.Jones, P.Stocker	4 weeks	started
PC-STEER Spare Cards	***	Assembly of suitable Spare Cards	P.Stocker, P.Louw	6 weeks	on hold
SDIO to RS-422	*****	redevelop SDIO using RS-422 duplex	K.Jones, J.Quick, P.Stocker	6 weeks	started
SDIO production	*****	produce 2+ units of SDIO + wire RS422 circuit	P.Stocker, P.Louw	4+ weeks	on hold
Noise Diode Interface	*****	Design and Implement new Noise Diode Hardware Interface	K.Jones, J.Quick, P.Stocker	2 months	on hold

3 Software

3.1 Done

Task	Priority	Description	Involves	Duration	Status
device servers	*****	port ESRF device servers to Linux and test	A.Götz	2 weeks	done
Venix to Linux	****	install Linux and FS9 on VLBI computer	J.Quick	1 week	done
PC-STEER	*****	rewrite PC-STEER control software in C to run under Linux	J.Quick	1 month	done
NASA time code	****	develop software to read NASA time code under interrupt and synchronise PC-STEER clock	J.Quick	1 week	done
PC-STEER Cage	*****	write Linux device driver for PC-STEER cage interface	J.Quick	6 weeks	done
SDIO device server	***	write a device server for SDIO	A.Götz	2 weeks	done

3.2 To do

Task	Priority	Description	Involves	Duration	Status
code development environment	*****	redefine and setup code development environment	J.Quick, M.Gaylard	1 day	on hold
backups	****	setup a backup strategy for all Linux boxes	J.Quick, M.Gaylard	2 weeks	started
PC-STEER Integration	*****	interface and test PC-STEER software, hardware cage and wiring	J.Quick	2 weeks	on hold
PC-STEER software	*****	extend PC-STEER to support seasonal Declination offset + Hyperbola and Weather readouts	J.Quick	2 weeks	on hold
PC-STEER Debugger	****	rewrite PC-STEER Trace Debugger in C to run under Linux	J.Quick	2 weeks	started
PC-STEER device server	*****	write a device server interface for PC-STEER	J.Quick	3 weeks	on hold
Noise Diode device server	*****	develop Noise Diode as a sub-device in SDIO device server	J.Quick, A.Götz	??	on hold
VLBI MKIV *to* NCCS	*****	develop interface between MKIV VLBI and NCCS	J.Quick	3 weeks	on hold
ntp	***	install network time protocol on all Unix/Linux boxes	J.Quick	1 week	on hold