COG Memo No. 24

DRAFT 4/6/82

TO: A. Shalloway
FROM: R. Burns
SUBJECT: NRAO Dial in/out Modem Lines

The attached sheets describe the NRAO's dial up modem capability. Many of the modems tested are in place. In addition, a number of additional modems shall be available when the intrasite digital comunications system is installed. Most of our needs can be met by using these modems and there was some attempt to limit the requirements so this could be done. However, as new modems are purchased, some guidelines should be kept in mind.

1) Our standard dial in support is 1200 baud VADIC asynchronous, answer only. When multiple lines are supported, the additional lines shall normally be this.

2) The CV-IBM, CV-VAX and VLA-DEC10 each should eventually have a triple modem originate/answer because each should have at least a single 1200 baud asynchronous BELL capability as well as a 300 baud capability. The DEC10 does not need 300 baud but the triple modem is the easiest way to combine the other two. Also, each of these systems should have a dial out capability. Automatic dialers would be nice on these systems but they are not required.

3) Eventually triple modems should be phased into the 140-foot and 300-foot telescopes as well, but this would be on an "as available" basis.

4) Since the Socorro dial in will be used only by our own programmers, 1200 baud VADIC, answer only is adequate on a permanent basis. Perhaps only triple modems should be purchased from now on and the modems with lesser capability should migrate to the systems where the full capabilities are not required, i.e., Socorro and the second, third, etc. modem on the IBM or DEC10 or CV-VAX.

ATTACHMENT

#	LOC.	MACHINE	ORIGINATE/ ANSWER	VADIC/ BELL	BAUD	SYNC/ ASYNC	DUPLEX	COMMENTS
1	CV	VAX	ans only	VAD	1200	async	full	
2	CV	VAX	ans only	---	300	async	full	← now
3	CV	VAX	ans only	BELL	1200	async	full	may be shared with 1 Now
4	CV	VAX	orig/ans	VAD	1200	async	full	manual or auto dial - may be combined with 1
5	CV	VAX	orig/ans	VAD	~~1200~~ 4800	sync	~~full~~ half	DEC-NET to CIT & SAO — BUY
6	CV	IBM	ans only	VAD	1200	async	full	— now
7	CV	IBM	ans only	VAD	1200	async	full	— now

— now

This can be shared with 1 if the switching can be made convenient. More information is needed here before this can be considered firm.

8	CV		IBM	ans only	BELL	1200	async	full	may be combined with 6
9	CV		IBM	ans only	---	300	async	full	← NOW
10	CV		IBM	orig/ans	VAD	1200	async	full	may be shared with 6 or 7
11	CB	300'	ModComp	ans only	VAD	1200	async	full	
12	CB	140'	ModComp	ans only	VAD	1200	async	full	
13	VLA		DEC10	ans only	VAD	1200	async	full	
14	VLA		DEC10	orig/ans	VAD	1200	async	full	
15	VLA		DEC10	ans only	BELL	1200	async	full	
16	VLA		Soc	ans only	VAD	1200	async	full	
17	VLA		Soc	ans only	VAD	1200	async	full	
18	VLA		Soc	ans only	VAD	1200	async	full	
19	TcMt.		PDP11	orig/ans	VAD	1200	async	full	(19-21 use existing VADIC triple modem)
20	TcMt.		PDP11	orig/ans	BELL	1200	async	full	
21	TcMt.		PDP11	orig/ans	---	300	async	full	

BUY

22 Tuc. Downtown Same requirements as mountain - can be sanctified for the present by borrowing the triple modem from the mountain.

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