

VLBA ACQUISITION MEMO #188

CHANNEL ASSIGNMENTS FOR THE VARIOUS DAR CONFIGURATIONS

George Peck
National Radio Astronomy Observatory
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The two new proposed 14 BBC DAR configurations of Interferometrics and NRAO (for the Navy at Greenbank) would require VLBA software to recognize which type of rack is in use at a given site. This is because the inputs to the samplers are different on the various configurations. It has been suggested that we could keep track of the rack configuration by serial number, and that the software could read the serial number of the rack to determine which set of track assignments to use. The Interferometrics version of the DAR has two modes; one which is identical to the normal VLBA configuration, and another for the configuration which uses 14 BBC modules. I would be interested if the various people involved think that the VLBA software should keep track of the different versions of the rack by serial number, and whether or not there should be a way to detect the mode in use on the Interferometrics rack. I will look into the possibility of finding a solution to this problem. Following is a table which summarizes the track assignments associated with the various DAR configurations.

Code	Normal VLBA	Interferometrics	NRAO(Navy)
8000	BBC 1 lower mag	BBC 4 upper sign	BBC 1 lower mag
8001	BBC 1 lower sign	BBC 3 upper sign	BBC 1 lower sign
8002	BBC 1 upper mag	BBC 2 upper sign	BBC 1 upper mag
8003	BBC 1 upper sign	BBC 1 upper sign	BBC 1 upper sign
8004	BBC 2 lower mag	BBC 4 lower sign	BBC 2 lower mag
8005	BBC 2 lower sign	BBC 3 lower sign	BBC 2 lower sign
8006	BBC 2 upper mag	BBC 2 lower sign	BBC 2 upper mag
8007	BBC 2 upper sign	BBC 1 lower sign	BBC 2 upper sign
8008	BBC 3 lower mag	UNUSED	BBC 4 upper mag
8009	BBC 3 lower sign	BBC 11 upper sign	BBC 4 upper sign
800A	BBC 3 upper mag	BBC 10 upper sign	BBC 3 upper mag
800B	BBC 3 upper sign	BBC 9 upper sign	BBC 3 upper sign
800C	BBC 4 lower mag	UNUSED	BBC 6 upper mag
800D	BBC 4 lower sign	BBC 11 lower sign	BBC 6 upper sign
800E	BBC 4 upper mag	BBC 10 lower sign	BBC 5 upper mag
800F	BBC 4 upper sign	BBC 9 lower sign	BBC 5 upper sign
8010	BBC 5 lower mag	BBC 8 upper sign	BBC 8 upper mag
8011	BBC 5 lower sign	BBC 7 upper sign	BBC 8 upper sign
8012	BBC 5 upper mag	BBC 6 upper sign	BBC 7 upper mag
8013	BBC 5 upper sign	BBC 5 upper sign	BBC 7 upper sign
8014	BBC 6 lower mag	BBC 8 lower sign	BBC 10 upper mag
8015	BBC 6 lower sign	BBC 7 lower sign	BBC 10 upper sign
8016	BBC 6 upper mag	BBC 6 lower sign	BBC 9 upper mag
8017	BBC 6 upper sign	BBC 5 lower sign	BBC 9 upper sign
8018	BBC 7 lower mag	UNUSED	BBC 12 upper mag
8019	BBC 7 lower sign	BBC 14 upper sign	BBC 12 upper sign
801A	BBC 7 upper mag	BBC 13 upper sign	BBC 11 upper mag
801B	BBC 7 upper sign	BBC 12 upper sign	BBC 11 upper sign
Code	Normal VLBA	Interferometrics	NRAO(Navy)
801C	BBC 8 lower mag	UNUSED	BBC 14 upper mag
801D	BBC 8 lower sign	BBC 14 lower sign	BBC 14 upper sign
801E	BBC 8 upper mag	BBC 13 lower sign	BBC 13 upper mag
801F	BBC 8 upper sign	BBC 12 lower sign	BBC 13 upper sign