

ALMA TST1 -- Jan 15, 2004		Preparation Status					
Preparation							
Testing Plan				4/15/2003		6/20/2003	Goals; Emphasis
Data Selection							
H121							Observing intent, general information, expected results
L02D							Observing intent, general information, expected results
G192							Observing intent, general information, expected results
N7538							Observing intent, general information, expected results
Testing checklist/report sheet				11/15/2003			Priority 1 items from Audit
OS support required				1/6/2004			RH9, SuSE, Solaris
Media distribution of data/rpms				12/29/2004			DVD, CD (CW)
	SSG		NAUG		ALMA		
Target	Who	Deadline	Who	Deadline	Who	Distributed	E-mail
H121	SB [GM]	1/3/2004	DS[?]	1/10/2004	Christine Wilson Friedrich Wyrowski	1/15/2004	wilson@physics.mcmaster.ca wyrowski@mpifr-bonn.mpg.de
Data	X	12/1/2003	X	12/1/2003		1/19/2004	FW: DVD;RH9,SuSE 8.2
Script	X	12/31/2003	X	12/31/2003			CW: CD(data only), Solaris; Mandrake 9.1 - 64-bit!;
Cookbook Comments			X	12/1/2003			
G192	KG [JM]	1/3/2004	WB[BB]	1/10/2004	Crystal Brogan	1/15/2004	cbrogan@ifa.hawaii.edu
Data	X[X]	12/1/2003	X[X]	12/1/2003		1/19/2004	CB: DVD; RH9.1
Script	X[X]	12/29/2003	X[X]	12/30/2003			
Cookbook Comments	[X]	1/4/2004	[X]	1/7/2004			
L102D	KG [GM]	1/10/2004	SM	1/10/2004	Debra Shepherd	1/15/2004	dshepher@nrao.edu
Data	X	12/1/2003	X	12/1/2003		1/19/2004	DS: DVD; RH9
Script	X	1/7/2004	X	1/7/2004			
Cookbook Comments	X	1/12/2004	X	1/7/2004			
N7538	JM [RR]	1/3/2004	BZ[EF]	1/3/2004	Munetake Momose Karl Menten	1/15/2004	momose@nro.nao.ac.jp kmenten@mpifr-bonn.mpg.de

Data	X[X]	12/1/2003	X[X]	12/1/2003		1/19/2004	MM: DVD; Vine Linux 2.6r3
Script	X	1/4/2003	X[X]	1/2/2004			KM: Same as FW
Cookbook Comments	X[X]	1/4/2003	X[X]	12/20/2003			
Key Defects:	Who	ClearDDTS ID	Deadline			Resolved	
iramcal.phcor - glish errors	KG	AOCso04658	1/3/2004			1/2/2004	
ALMA:iramcal.phcor -05may98 error	KG	AOCso04308	1/3/2004			1/2/2004	
3mm phase cal offsets of PdBI data	GM		1/10/2004			12/30/2003	
cal.bpoly produces fortran errors	GM	AOCso04678	12/29/2003			1/9/2004	
cal.setdata produces severe error	KG	AOCso04603	1/10/2004			1/7/2004	
cal.setdata gives error when 1st spwid=1cha	GM	AOCso04476	1/10/2004				duplicate of AOCso04603
interactive mask - do not give warning	KG	AOCso04686	1/3/2004				
TI-FITS filler doesn't know ant positions	GM	AOCso04329	1/10/2004	inconvenient			warn
imager.plotvis doesn't work	KG	AOCso04664	1/3/2004			1/4/2004	
cal.solve - cannot derive gain spline sol'ns	GM	AOCso04677	1/10/2004	done-testing			
VLA filler doesn't fill V_LSR correctly	JM	AOCso04507	1/10/2004	investigation			warn
cal.setapply of 2 GSPLINE tables?	GM	AOCso04683	1/3/2004	doc			
documentation problems	GM	AOCso04659	1/10/2004	doc			update URM
documentation problems	GM	AOCso04660	1/10/2004	doc			use setdata
almatiffiller trailing '/' problem	KG	AOCso04290	12/23/2003			12/23/2003	
calibrator.fluxscale	GM	AOCso04662	12/4/2003			12/4/2003	
SEVERE:lo message: "illegal step pixel=1	GM	AOCso04603	1/10/2003			1/7/2004	duplicate of AOCso04603
PdBI concatenated MS can not be imaged	KG	AOCso04694	12/23/2003			12/23/2003	
spectral window ID compatibility	KG	AOCso04692	1/10/2004	minor - doc		1/13/2003	
missing include statement	DS	AOCso04680	1/10/2004	minor			not resolved-workaround
cache size	SB	AOCso04645	1/10/2004	serious			workaround using .aipsrc
split causes ms to fail unexpectedly	KG	AOCso04701	1/10/2004	-		12/31/2003	
problems working with stable vs stable_ss3	WY	AOCso04702	1/10/2004	investigation			can't reproduce
Gives error, spits out many lines, crashes	GM	AOCso04703	1/10/2004	done-testing			duplicate of AOCso04677
Does not close plotcal(); freezes	GM	AOCso04704	1/10/2004				hard to reproduce; mention
ms.split crashes when passed bad argumen	KG	AOCso04705	1/10/2004	-		12/31/2003	
ms.split: set nchan wrong creates bad ms	KG	AOCso04716	1/16/2004			1/16/2004	improve handling; patched daily
imager froze aips++ during clean	KG	AOCso04717	1/16/2004			1/16/2004	non-repeatable
ms.uvlsf mode='subtract' created cont im	KG/JM	AOCso04718	1/16/2004			1/16/2004	doc problem;disable order
Interactive doesn't respect freq. ref. frame	NK	AOCso04699	1/10/2004				postponed— disabled;workaround

Cookbook edits all in place	JM			1/13/2004		1/14/2004	Walter, Raymond, Joe, George, Bryan
CDs with Data for CW	JM			1/14/2004			
Web page with all other info	JM			1/14/2004			
Ship data to all	JM			1/14/2004		1/15/2004	
Public TST1 web page	JM			1/15/2004			
AAR							
Preparation					improve		Need detailed information on datasets, including observing intent, goals, observing setup, expected/known results. Much time spent deriving this information empirically (no proprietary datasets; should be completely reduced in another package). SM recommendation - make the data more interesting - not resolved on this.
Preparation					improve		Needed earlier understanding of supported OSs, distribution media. Anticipated RH9, anticipated no formal distribution needed (required only updates of existing installations). Much time spent obtaining and supporting non-NRAO native OSs, storage media.

Planning					improve		Need constant, on-going scientific testing. Many new processes for testing new developments but many defects are only uncovered through scientific use. Too little time spent early on in this area.
Planning					improve		Over-scheduled a holiday-laden period. SM recommendation - shift January date to February!
Testing					improve		Checklist for dependencies and libraries that automatically compares desired and used libs.
Testing					improve		Routine use of profiling tools on the code.
Testing					improve		Test repository distinct from data repository
Documentation					improve		Improvements in doc mechanisms.
Scheduling					improve		If the tests are intended to improve the offline system, the best gains from this were from the internal NAUG tests (external testers did not in general catch any new problems). For improved efficiency, the tests format should consider a one week in-house test.
Process					maintain		Staged testing and redundant reviews discovered led to many improvements

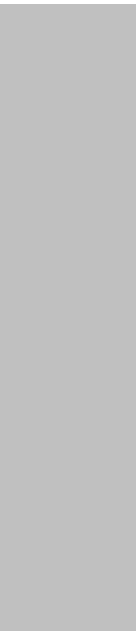
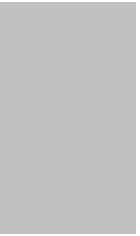
Process					maintain		NAUG participation/goals were detailed and produced vital feedback and advice.
Process					maintain		Partnered problem solving proved very efficient for trans-tool defects.
Communication					maintain		Good communication with ALMA PS, ALMA management, NAUG testers, etc enabled some success despite some of the problems identified above.
ALMA TST1 Defects (Jan 19 - Feb 18)	Resp.	Defect	Severity	Submitter	Report Code	Resolved	Notes (B=Bug,D=Doc, E=Enhancement)
Clarify install/upgrade for rpms	JM			CB	NA	2/15/2004	Private communication
README	JM			FW	NA	2/15/2004	Alter RPM installation-sequence.
dv.gui(); produces an error message	JM	AOCso04724	4	DS	NA		Resolved; can't reproduce
imgr: a mistake in setting up an image crashed imager	KG	AOCso04722	3	DS	B5		resolved (KG?)
iramcalibrator.shadow gives many errors	KG	AOCso04723	3	CW	B1		minor issue; clear resolution path
imager crashes on multi-spw data	KG	AOCso04724	2	DS			resolved in daily; caveat noted to testers
deconvolution fails (psf cannot be found)	JM	AOCso04725	NAB	DS	B6		Not a bug; cookbook updated.
msplot table conflict	GM	NA	NAB?	CW	B2		Not reproducible; the flag table didn't close properly from the first round of flagging.
hung_aips++	JM	NA	NAB?	CW	B3		Not reproducible; possible interaction with other processes on the system.
autoflag warning messages	KG			DS	B4		Need to eliminate the warning messages.

spline time setting	GM			DS/GM	B7		Setting different spline times at 1 and 3 mm when transferring phase solutions from 3mm to 1mm causes the calibration to not be determined correctly.
ms.split (VINE)	KG	AOCso04739		MM	B8		unsupported system
ms.uvlsf (VINE)	GM	AOCso04740	2	MM			unsupported system
raw phase transfer not working	GM			FW	B9, D3		For the 1mm data, tried to apply the scaled raw 3mm phases instead of the splines but couldn't get it to work with the information on the web.
directly print to printer doesn't work	DS	AOCso04748	4	FW	B10	3/5/2004	
ms.concatenate	KG			FW	B11		total integration time isn't correct after concatenation.
help system doesn't work properly	DS	AOCso04746	4	FW	B12	3/5/2004	web() doesn't start anything; it's looking locally for the refman but the docs weren't included in the rpms.
VLA filler doesn't fill V_LSR correctly	JM	AOCso04559		DS	B13		
TI-FITS filler doesn't know ant positions	GM	AOCso04329		DS	B14		
first call to bug() generates an error	DS	AOCso04747	4	JM		3/5/2004	cosmetic
Confusion with flux calibration	JM			CW	D1		add plot to cookbook for plotcal
Typo in ggtau script	JM			CW	D2		
Job control should stop task not shell					E1		
Logger window should record viewer-related commands					E2		
Fit results should go to the main log window					E3		
shell('.') syntax is awkward					E4		Need a recommendation
URM manual needs astronomer definitions					E5		Need recommendations
Help materials should be available in PDF					E6		
Need tolerance in spwid					E7		Fix problem with data-desc-id
Provide more information on weights					E8		Documentation
Provide plots of Tsys, tau, M&C data					E9		

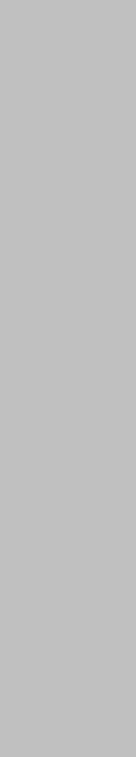
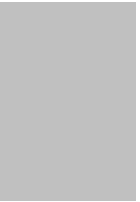
improve bootstrapping of abs. flux dens.					E10		more flexible to incorporate decorrelation properly. Can you unset fluxes in the data files - allow trying out flux variants.
Need processing history					E11		
channel selection in uvlsf available everywhere					E12		
flexible averaging over time,channel					E13		also add averaging over bands
more flexible interpolation					E14		only one default available
flag channel 0 data					E15		apply to data or subset of data
time variable bandpass should be possible					E16		
flexible channel selection for imaging					E17		
interactive masking with MEM					E18		
imager accept multiple data sets					E19		
support for offsets in uv cont'm subtraction					E20		if strong, point continuum source is significantly offset from phase center
calibration plot results					E21		cal.plotcal and PdBI plots should be controllable. Pgplots should be available rather than ps files.
provide better default for cube displays					E22		see more than one channel for a cube
image display information					E23		should not be attached to an image (save/reload is not good and it is not logged)
Transparent layer overlays of raster images					E24		
View time averaged display of uv data					E25		look at average in a correlator window tells you whether there is a line or not.
visualization not bound to MS					E26		makes switching between ms's awkward

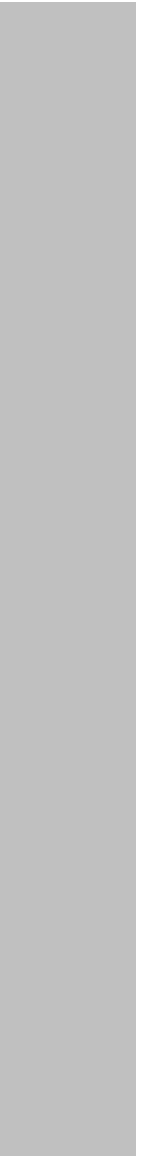
spline solutions					E27		phase and amplitude rms for a given antenna solution should be given in the log window in degrees.
spline control					E30		not as easy as using polynomials. Something like MIRIAD GFIDDLE
change reference frequency of a cube					E31		couldn't figure out how to do this.
on-line documentation search					E32		
Processing speed					E33		
source names rather than field_id numbers					E34		

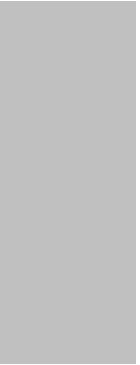
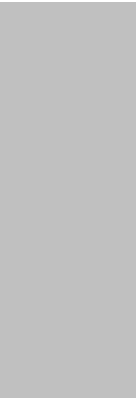














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