

V&V Summary Report

L2 ASCDS Version : 7.6.7.1

Observation 59931 - L2 Version 002
Chandra X-Ray Center

L2 Processing Date : Apr 8 2006

See [axaff59931N002_VV001_vvref2.pdf](#) for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.408

Comments

The fits keyword value of TIMEDEL in the Level 1 and Level 2 event file headers are incorrect in this version of the processing. The value in the event files should be 0.00285 s. This value is appropriate

since the TIMES between events can be separated by only 0.00285 s. The value of the keyword TIMEDEL in the exr0 and stat1 files is 1.4592 s, which is the correct value for these files. The data in the event files are correct. The correct value of TIMEDEL=0.00285 was used

to calculate the arrival time of each event, but the TIMEDEL value was changed in a subsequent step of the code to the incorrect value of 1.4592 s,

which was then recorded in the header. There is the potential for the event times to become corrupted if the user reprocesses the data. To fix this problem, the user should update the value of TIMEDEL in the header of their event-data file. They can do this using, e.g., dmhedit:

dmhedit infile='acisfxxxxx_000N002_evt1.fits' filelist=none
operation=add
key=TIMEDEL value=0.00285

seq_num	
obs_id	59931
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
ra_targ	0.0
dec_targ	0.0
ra_nom	108.88781082469
dec_nom	20.825727423516
roll_nom	80.188404356191
revision	2
ontime	8408.0
livetime	8375.15625
ontime4	5107.9503493607
ontime5	8408.0
ontime6	5506.3061416447
ontime7	8408.0
ontime8	5892.3830598295
ontime9	5663.8971332014
l2events	762622