

V&V Summary Report

L2 ASCDS Version : 7.6.7.1

Observation 59936 - L2 Version 002
Chandra X-Ray Center

L2 Processing Date : Apr 8 2006

See [axaff59936N002_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	8.314

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	59936
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	
ra_targ	0.0
dec_targ	0.0
ra_nom	100.89986040132
dec_nom	7.0286049201939
roll_nom	57.346286791963
revision	2
ontime	8314.0
livetime	8281.5234375
ontime4	5141.7536695302
ontime5	8314.0
ontime6	5684.5677031875
ontime7	8314.0
ontime8	5770.6594379842
ontime9	5628.9347171485
l2events	758717