Data Path: Alerts

Project TFS path: $/Firmware-SVI II AP FF/FD-SW

Project changeset version: 50828

Starting point: TravelAlertsData

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FD-SW/target/appl/fdev/src/appl\_alerts.c | Review Date | Reviewer |
|  | | | | |
| Function or data | | TravelAlertsData; TB:: travel\_accumulation\_trend | 15-05-12 | AK |
|  | | | | |
| TFS wit |  | Spurious cast:  if ((bool\_t)TravelAlertsData[alertIndx].Initialized) | | |
| Impact | | Style/maybe efficiency | | |
| Resolution | |  | | |
| TFS wit | 24461 | Implicit demotion 366:  travel = p\_PTB->travel\_accumulation\_trend.currently\_collected - TravelAlertsData[alertIndx].LastPos; | | |
| Impact | | Loss of precision? Efficiency? | | |
| Resolution | |  | | |
| TFS wit |  | Redundant 371 vz. 374:  TravelAlertsData[alertIndx].LastPos = p\_PTB -> travel\_accumulation\_trend.currently\_collected; | | |
| Impact | | Confusing | | |
| Resolution | |  | | |
| TFS wit | 24462 | 379: pAlert->alert = pAlert->historic\_alert = (BOOL)true;  1. Cast to BOOL doesn’t produce Softing’s TRUE.  2. Composite assignment | | |
| Impact | | 1. Unknown 2. Misleading/coding standard | | |
| Resolution | |  | | |
| Additional | |  | | |
| Comment | |  | | |
|  | | | | |
| Function or data | | AlertHandle\_SPTimeout | 15-05-12 | AK |
|  | | | | |
| TFS wit |  | If alert is disabled for more than 50 days (to let the timer counter roll over the base value) and then enabled, the alert will be on. | | |
| Impact | | Style/maybe efficiency | | |
| Resolution | |  | | |
| TFS wit |  | Cast to BOOL doesn’t produce Softing’s TRUE. | | |
| Impact | | Unknown but not good | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | AlertHandle\_IPCurrent | 15-05-12 | AK |
|  | | | | |
| TFS wit |  | Line 779 of C50828 means just “else”? | | |
| Impact | | Confusing | | |
| Resolution | |  | | |
| TFS wit | 24462 | Cast to BOOL doesn’t produce Softing’s TRUE. | | |
| Impact | | Unknown but not good | | |
| Resolution | |  | | |
|  | |  | | |

Data Path: Alerts scaling

Project TFS path: $/Firmware-SVI II AP FF/FD-SW

Project changeset version: 34964

Starting point: PSI\_PRESSURE\_DEADBAND\_MAX

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FD-SW/target/appl/fdev/inc/mn\_supply\_pressure\_alert.h | Review Date | Reviewer |
|  | | | | |
| Function or data | | PSI\_PRESSURE\_DEADBAND\_MAX | 15-05-15 | AK |
|  | | | | |
| TFS wit |  | Magic number without any comment/reference | | |
| Impact | | Style/traceability | | |
| Resolution | |  | | |
| TFS wit |  | Checked in against a wrong WIT | | |
| Impact | | Impedes review/traceability | | |
| Resolution | |  | | |

Data Path: Cycle Counter Alert­; Travel Accumulation Alert

Project TFS path: $/Firmware-SVI II AP FF/FD-SW

Project changeset version: 50828

Starting point: Write and Effect on static revision number

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Containing file | | FD-SW/target/appl/fdev/src/ mn\_cycle\_counter\_alert.c  FD-SW/target/appl/fdev/src/mn\_travel\_accumulation.c | | Review Date | Reviewer |
| Function or data | | SyncCycleDeadBand  SyncTravelDeadBand | | 15-05-21 | AK |
|  | | | | | |
| TFS wit | 24463 | Lots of code duplication and the bugs are duplicated, too (cf. below).  Must be factored in a common function | | | |
| Impact | | Quality, maintainability | | | |
| Resolution | |  | | | |
|  | | | | | |
| TFS wit | 24463 | Incorrect placement of calls in the "check conditions" switch of the Write Handler, which means they are called whether or not the write to the parameter succeeds. It must be in the "execute" switch | | | |
| Impact | | Function error | | | |
| Resolution | |  | | | |
|  | | | | | |
| TFS wit | 24458 | The pattern   * \_CYCLE\_COUNTER\_ALERT\* pAlert = (void\*)p\_write->source; etc.   Is unsafe because of alignment. Should be replaced with e.g. PullFloat()  Applies to previous versions (Release1), too | | | |
| Impact | | May work now and break later when no-one expects. | | | |
| Resolution | |  | | | |
|  | | | | | |
| TFS wit | 24463 | | IncrementStaticRevision is called unconditionally whether there was a valid write or not | | |
| Impact | | | Function error | | |
| Resolution | | |  | | |
|  | | | | | |
| TFS wit |  | Name violates coding standard | | | |
| Impact | | coding standard; Invites names collision | | | |
| Resolution | |  | | | |
|  | | | | | |
| TFS wit |  | Look at  if(REL\_IDX\_PTB\_CYCLE\_COUNTER\_A\_ALERT == p\_write->rel\_idx)  {  write\_loc.rel\_idx = REL\_IDX\_PTB\_CYCLE\_COUNTER\_B\_ALERT;  } …  Are alerts A and B mixed? ? Same with if(REL\_IDX\_PTB\_TRAVEL\_ACCUMULATION\_A\_ALERT … | | | |
| Impact | | ~~Mix-up? Bug?~~ | | | |
| Resolution | | Intended sync of two variables | | | |
|  | | | | | |
| Additional | | Corresponding changes reviewed in:  FD-SW/target/appl/fbif/script/ ptb\_custom1.gw C47457 | | | |