XD\_FSTATE input clamping

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

Project changeset version: 37160

Starting point: p\_PTB->xd\_fstate

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Containing file | | FD-SW/target/appl/fdev/src/mn\_fstate.c | Review Date | Reviewer |
|  | | | | |
| Function or data | | ff\_fstate\_CopyCfg | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | NO FINDINGS | | |
| Impact | |  | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | ff\_fstate\_VerifyWriteConf | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | float\_t \*p\_fTime, \*p\_fVal;  More than one variable in one declaration, esp. pointers | | |
| Impact | | MISRA/Coding standard violation | | |
| Resolution | |  | | |
| TFS wit |  | p\_fVal = (float\_t \*)(void \*)(… etc.  Alignment problem. Use mn\_pull\_float() instead | | |
| Impact | | Portability; may be/become an actual bug | | |
| Resolution | |  | | |
| TFS wit |  | Code commented out | | |
| Impact | | MISRA/Coding standard violation | | |
| Resolution | |  | | |
| TFS wit |  | E\_FB\_PARA\_LIMIT -- or E\_FB\_PARA\_CHECK? | | |
| Impact | | Usability/response code. Check with Vlad | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | ff\_fstate\_CheckAndCorrect | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | MN\_ASSERT – use in a static function disables Lint checking. Since the function is only called with a constant parameter, Lint would catch it, and it is better than in runtime | | |
| Impact | | Robustness/efficiency | | |
| Resolution | |  | | |
| TFS wit |  | If/else/else – Use standard CLAMP macro instead | | |
| Impact | | Robustness/efficiency | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | ff\_fstate\_FStateRangeCheck | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | MN\_ASSERT – use in a static function disables Lint checking. Since the function is only called with a constant parameter, Lint would catch it, and it is better than in runtime | | |
| Impact | | Robustness/efficiency | | |
| Resolution | |  | | |
| TFS wit |  | If(expression)/else… to compute a Boolean  Is result=expression better? | | |
| Impact | | Style/suggestion | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | TruncateFloatValue | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | Code commented out | | |
| Impact | | MISRA/Coding standard violation | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | FState\_Ranges | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | Structs initialized without designators | | |
| Impact | | Coding standard violation | | |
| Resolution | |  | | |
|  | | | | |
| Function or data | | FSTAT\_VALUE\_MIN, FSTAT\_VALUE\_MAX | 15-05-19 | AK |
|  | | | | |
| TFS wit |  | I doubt those are independent parameters; they must be derived from setpoint limit values | | |
| Impact | | Robustness/Quality | | |
| Resolution | |  | | |