

Scale Factor Optimization (SFO) V6 Library Errata

1 Introduction

This document describes the updates to the Scale Factor Optimization (SFO) V6 library files packaged with the C/C++ Header Files and Peripheral Examples software package.

The updates are applicable to the following files:

- SFO_TI_Build_V6x.lib (where "x" represents the alphabetical revision letter of the library).
- SFO_V6.h

2 Library Change Overview

Table 1 lists the change(s) made to each library revision.

Table 1. SFO Library V6 Change Overview

REVISION	CHANGES MADE
0	Original library release
b	<p>Changes: Library re-released as SFO_TI_Build_V6b.lib</p> <p>Errors Fixed: The SFO_V6() function now properly updates the HRMSTEP register with MEP_ScaleFactor after calibration is complete.</p>

3 Known Advisories in Library Versions

Table 2 lists the known advisories in early library revisions and workarounds required in user code to account for these errors.

Table 2. SFO V6 Library Advisories in Early Software Revisions

Advisory	HRMSTEP Register not Updated with calculated MEP_ScaleFactor
Revision(s) Affected Details	0 The library function, SFO_V6(), does not properly update the HRMSTEP register with the newly calculated MEP_ScaleFactor value after SFO_COMPLETE status has been reached.
Workaround	After SFO_COMPLETE status has been reached on a call to SFO_V6(), user must manually update the HRMSTEP register with the newly calculated MEP_ScaleFactor Value.

Example:

```
if (SFO_V6(n)==SFO_COMPLETE) {  
    EALLOW;  
    EPwm1Regs.HRMSTEP = MEP_ScaleFactor;  
    EDIS;  
}
```