Advantech AE Technical Share Document

Date	2016 / 07 / 22	SR#	1-2512999021
Category	■ FAQ □ SOP	Related OS	
Abstract	How to calculate the maximum value of ACC value		
Keyword	Acceleration, S-curve		
Related Product	PCI-1220, PCI-1240, PCI-1245L, PCI-1245E, PCI-1245, PCI-1265, PCI-1285E, PCI-1285, PCI-1203		

■ **Problem Description**

When I select S-curve mode, why I get below alarm message?
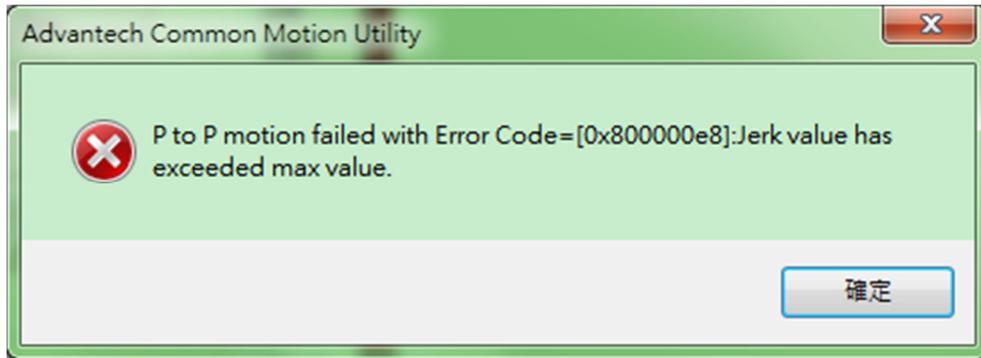
■ **Problem Analysis**

This issue cause of when user select S-curve mode, the acceleration time or deceleration time will become 2 times of current value. When this value exceed the internal Jerk value, the 0x800000e8 error will occur.

■ **Solution**

To solve this issue, the ACC or DEC value should follow below rule

$$\text{ACC} \leq \sqrt{\frac{2100000000 \times (V_H - V_{L)}}{4}}$$