



MS Access for Optimal Performance

APPLICATIONS NOTE

August 2004



Description: Guide to tuning MS Access for the best performance.

OS Requirement: Windows Nt/2000/XP/Me/Win Server 2003.

General Requirement: GENESIS32 version 8.0.

Sometimes the TrendWorX32 or AlarmWorX32 applications are huge. We may need to tune Access for the optimal performance. This document explains how we can achieve the same.

For either TrendWorX32 or AlarmWorX32, when the logging conditions are left at default, without making any changes, we need not worry about tuning Access at all. When we do logging with large number of signals, then we may be necessary to do the tuning.

For AlarmWorX32, under any circumstances, we don't need any special settings or tuning of MS Access.

For TrendWorX32, based on the application, a key in the registry can be created and modified. The value of this key is set to 1 MB (1024) by default. This value applies to all the applications across GENESIS32. Based on the load of the TrendWorX32 application, the value of this key has to be modified accordingly.

For example

Logging 100 signals, every 1 min: Change the value of key 4 times. So the new value should be $1024 * 4$

Logging 100 signals, every 1 sec: Change the value of the key by 8 times. So the new value should be $1024 * 8$

Logging 500 signals, every 1 min: Change the value of the key by 16 times. So the new value should be $1024 * 16$

Similarly based on *your* needs you may have to change the value of this key. The key is not present by default, one will have to create the key before setting it. To create the key, you will need to go to **Registry Editor** and hence you should be an administrator on the PC.

The following is the key to be created:

HKEY_LOCAL_MACHINE\SOFTWARE\ICONICS\JET\MaxBufferSize

Key is a DWORD in KBytes. Default is 1024. Use the following steps in order to create this key:

1. Goto **Start** → **Run**, and type in **Regedit**. Look for the following key:

HKEY_LOCAL_MACHINE\SOFTWARE\ICONICS

2. First create the “Jet key”, as shown in **Figure 1**. Highlight **ICONICS** and create the key.

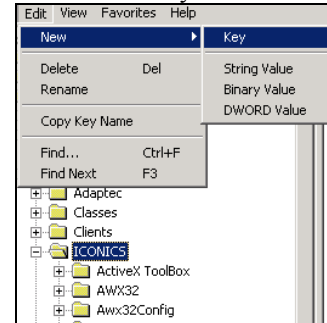


Figure 1

3. Highlight **Jet** (the key created), right click and select **New** → **DWORD Value**, as shown in **Figure 2**.

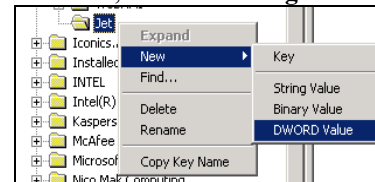


Figure 2

4. Name the key **MaxBufferSize**. Highlight the key, right click and select **Modify**. The value to be entered as default) is **1024 (decimal)**. You can increase this value depending on the load you have. See **Figure 3**.

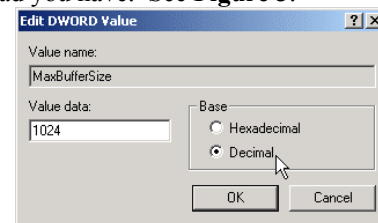


Figure 3

5. After adding the key and making changes the final registry should look like **Figure 4**.

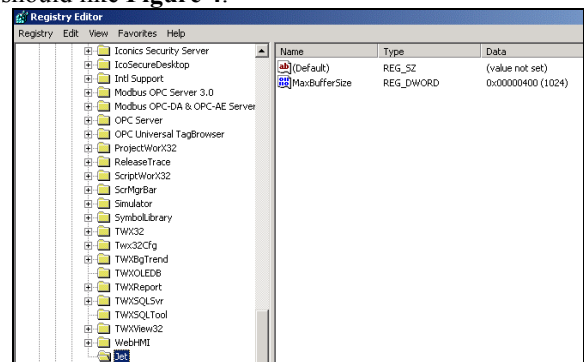


Figure 4

6. This one setting will tune MS Access to handle large loads of information.