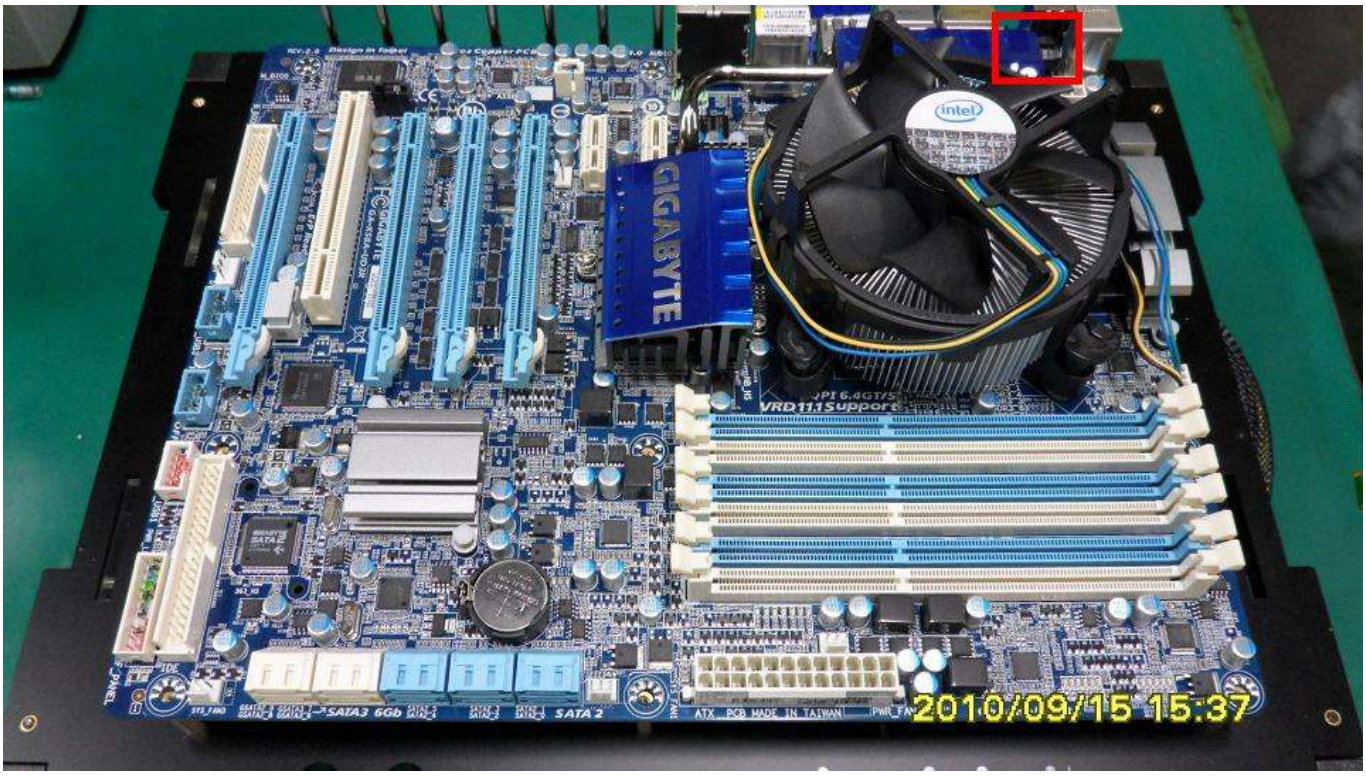
PRINCO DDR3-1800 user guide and testing for GA-X58A-UD3R Motherboard

CPU i7-950 3.07G



Part I：Standard test

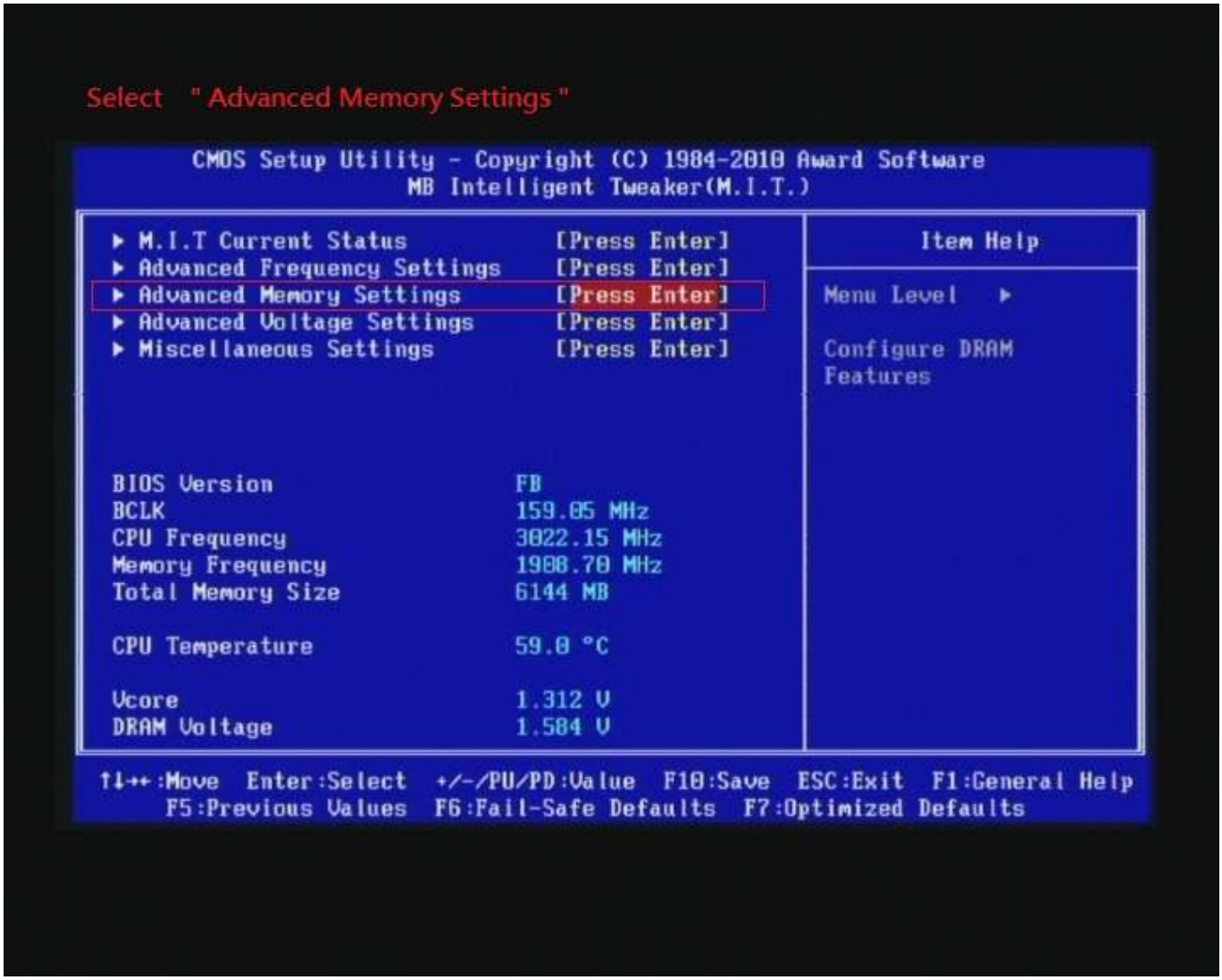
It's the easiest way to enjoy overclock benefit by using PRINCO DDR3-1800 DIMM board

How to use?

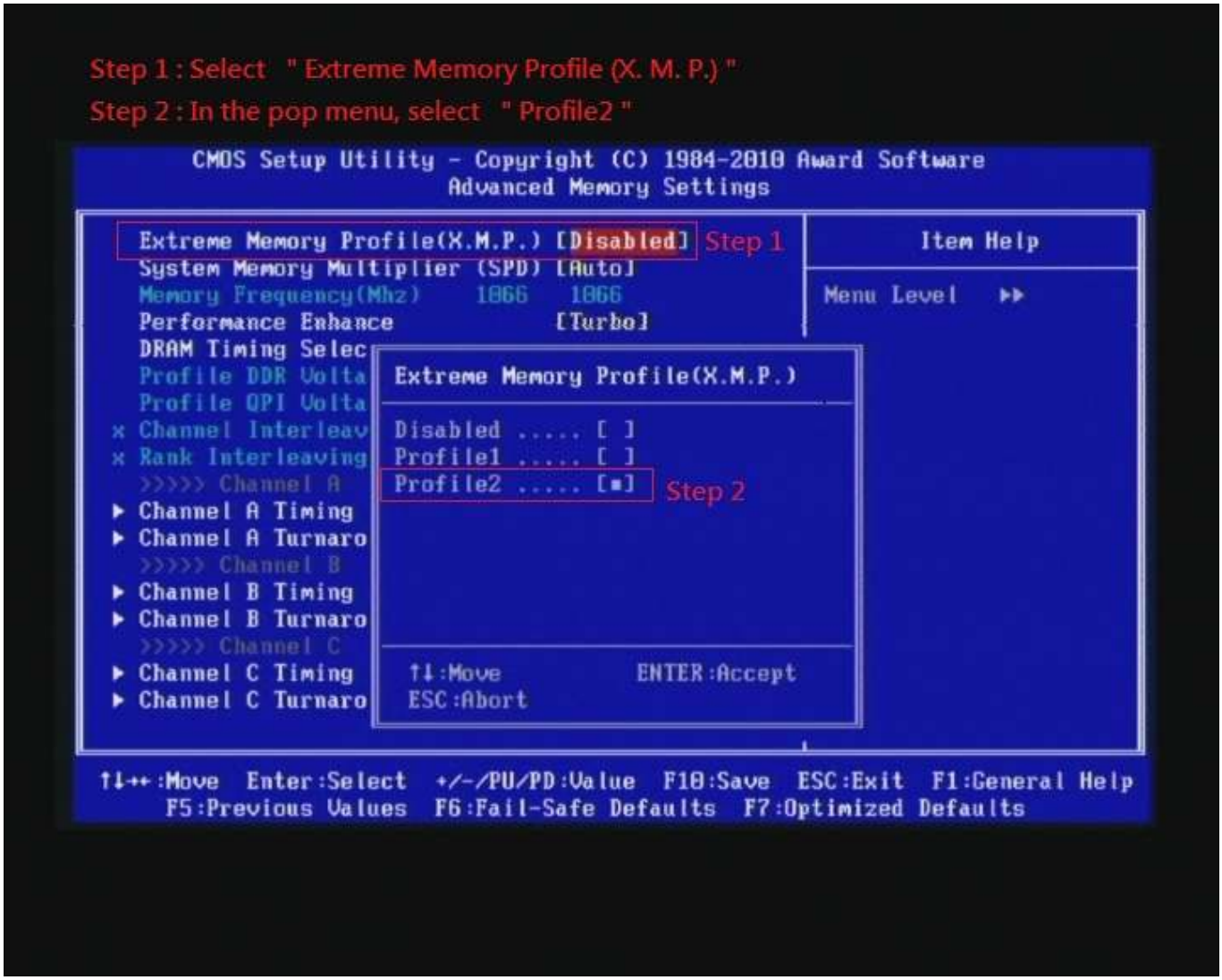
0. Clear BIOS to mainboard initial setting

1. Enter BIOS setup and [MB Intelligent Tweaker(M.I.T.)] menu

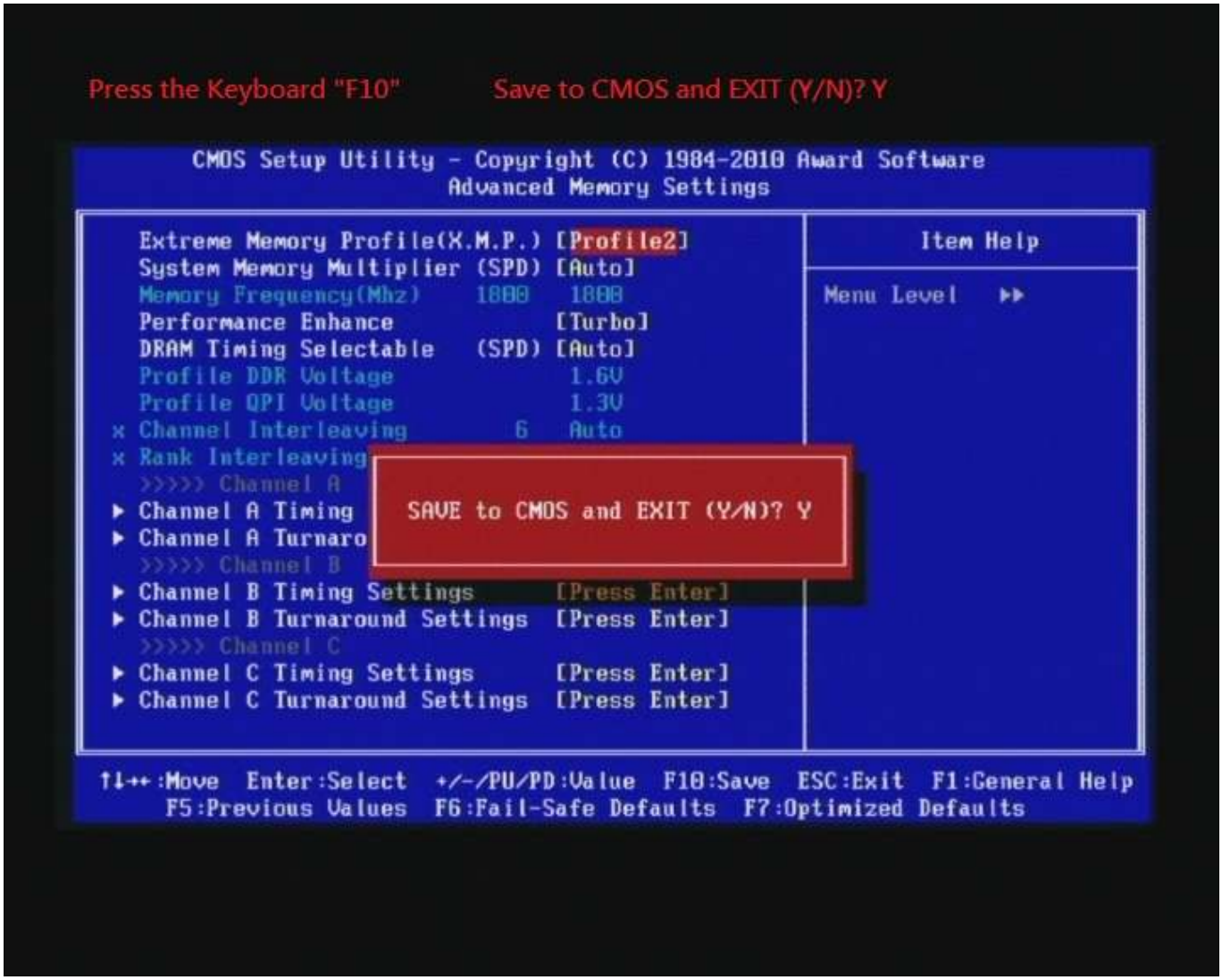
2. Enter [Advance Memory Setting] item



3. Enter [Extreme Memory Profile(X.M.P.)] item and choose [Profile 2] option，*BIOS will load X.M.P parameter in SPD on DIMM board， which are performance optimized for PRINCO DDR3-1800 DIMM board*



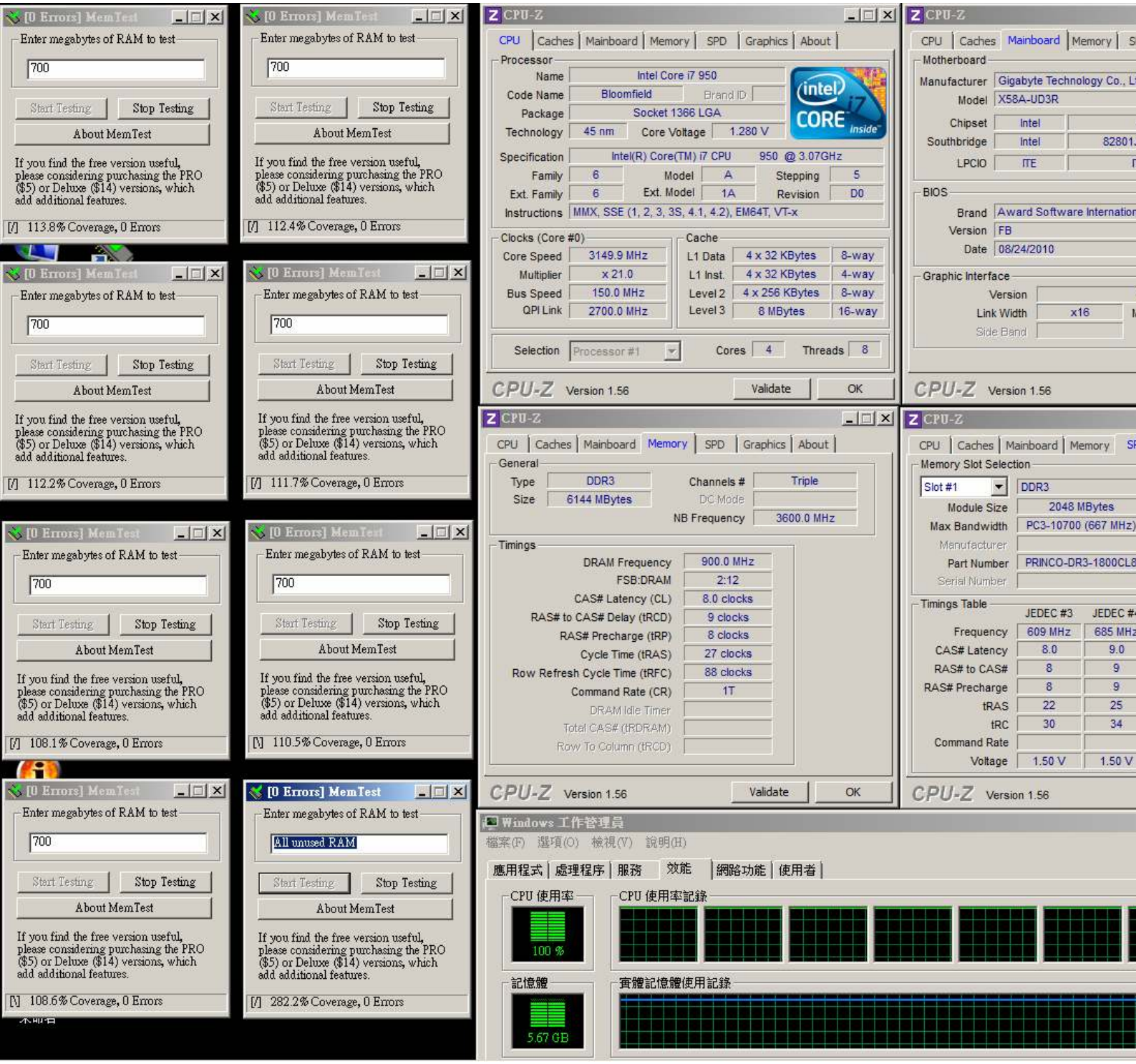
4. Save BIOS changes [F10] and exit



Test result?

In order to demonstrate the performance and stability of PRINCO DDR3-1800 DIMM board, We use the strictest stress testing, that is, multi-core MemTest in window 7.

(Data rate：900.0*2=1800,　timing：8, 9, 8, 27,　multi-core test => pass!)



Advanced Overclocking and Testing

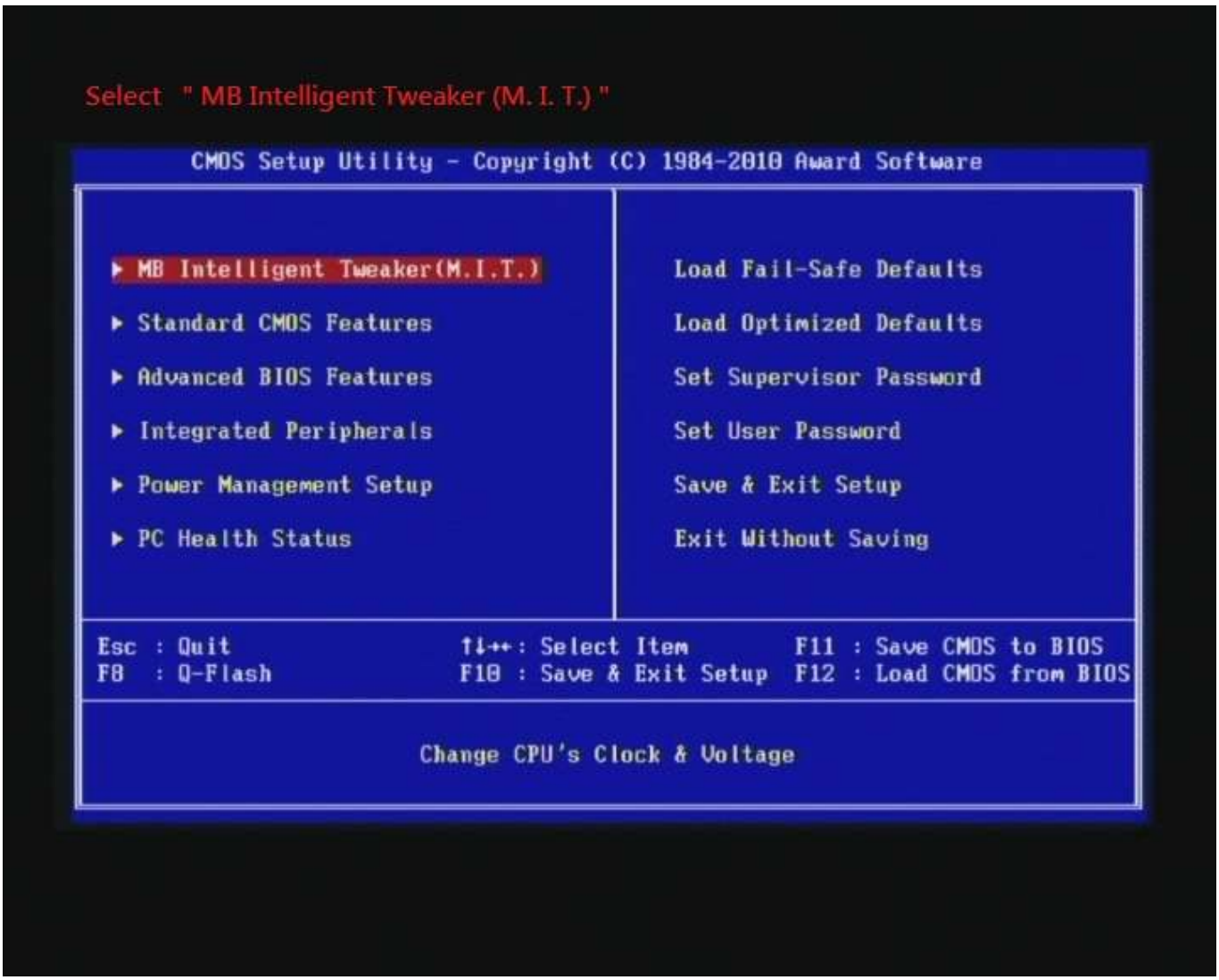
Part II：Heavy test

If you want to know the potential of PRINCO DDR3-1800? Following are step-by-step howto.

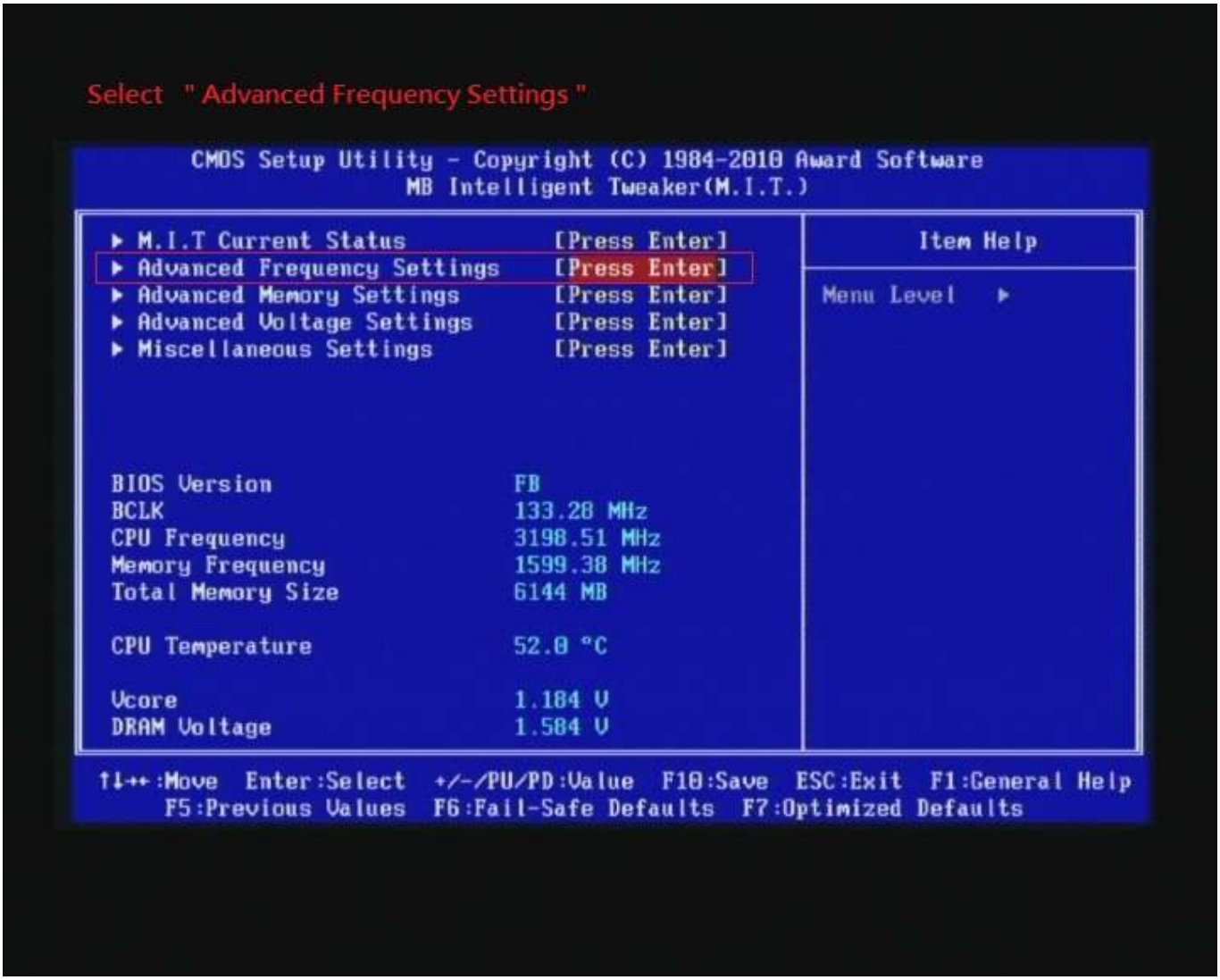
How to use?

0. Clear BIOS to mainboard initial setting

1. Enter BIOS setup and [MB Intelligent Tweaker(M.I.T.)] menu



2. Enter [Advance Frequency Setting] item



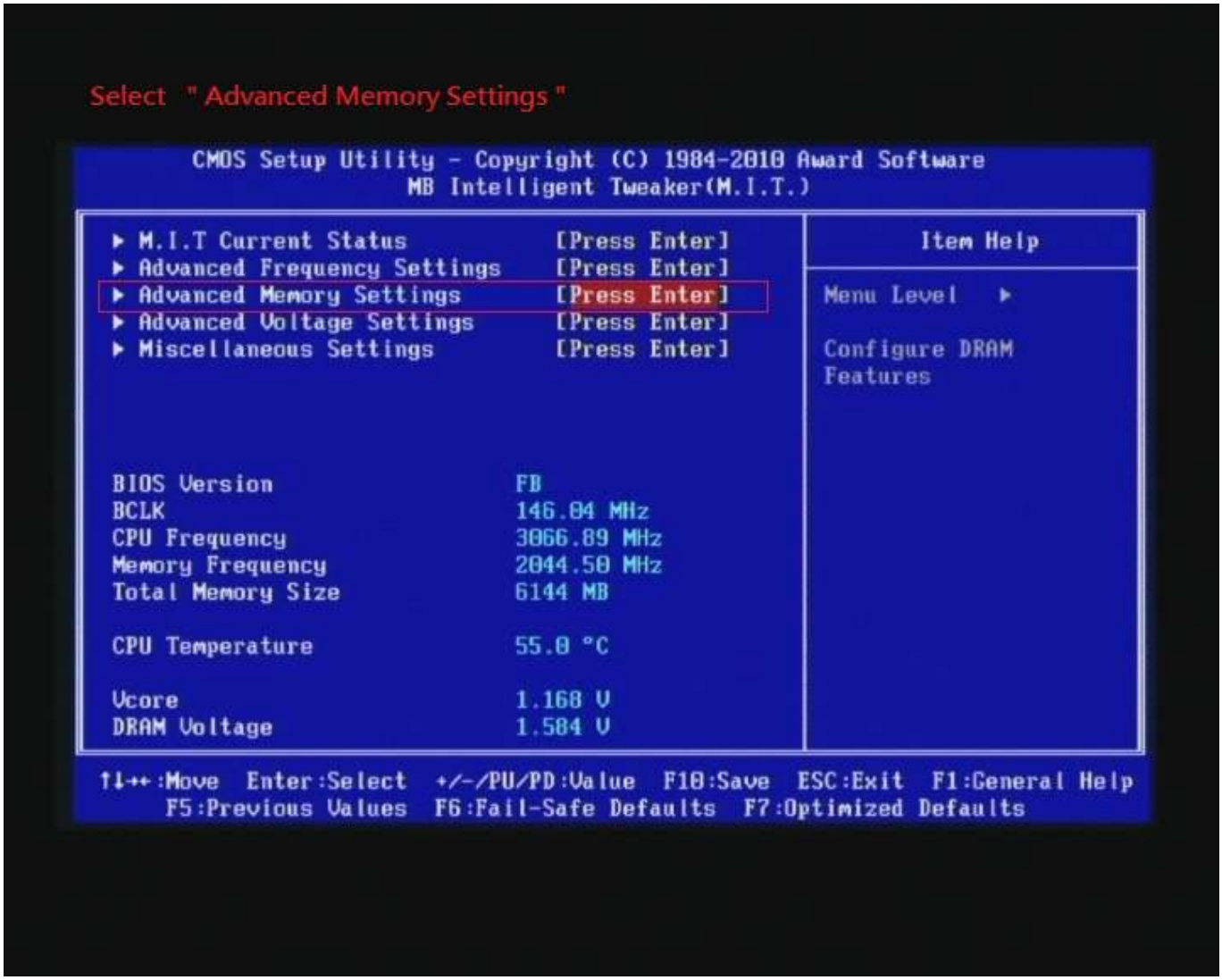
3. Set [Base Clock(BCLK) Control] item to [Enabled] ，Select [BLCK Frequency(Mhz)] item，and increase to higher Base clock rate (ex:136). Then set [System Memory Multiplier (SPD)] item to [14.0]. Don’t forget setting [CPU Ratio Setting] item to suitable ratio [ex:22]

(In this case we only focus on memory over clocking, not CPU)

then return to previous to

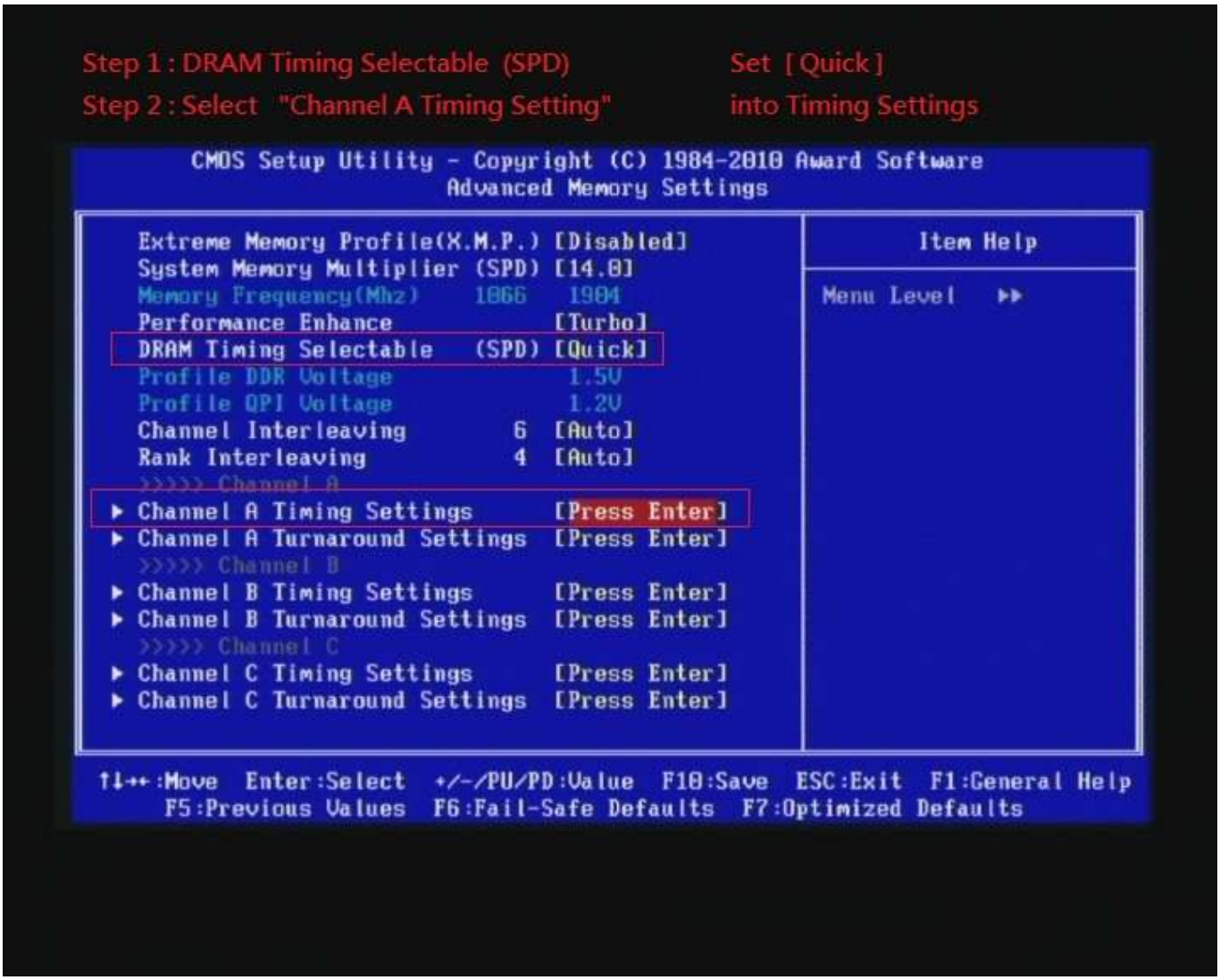
[MB Intelligent Tweaker(M.I.T.)] menu

4. Enter [Advance Memory Setting] item



5. Set [DRAM Timing Selectable (SPD)] item to [Quick]

6. Enter [Channel A Timing Settings] item



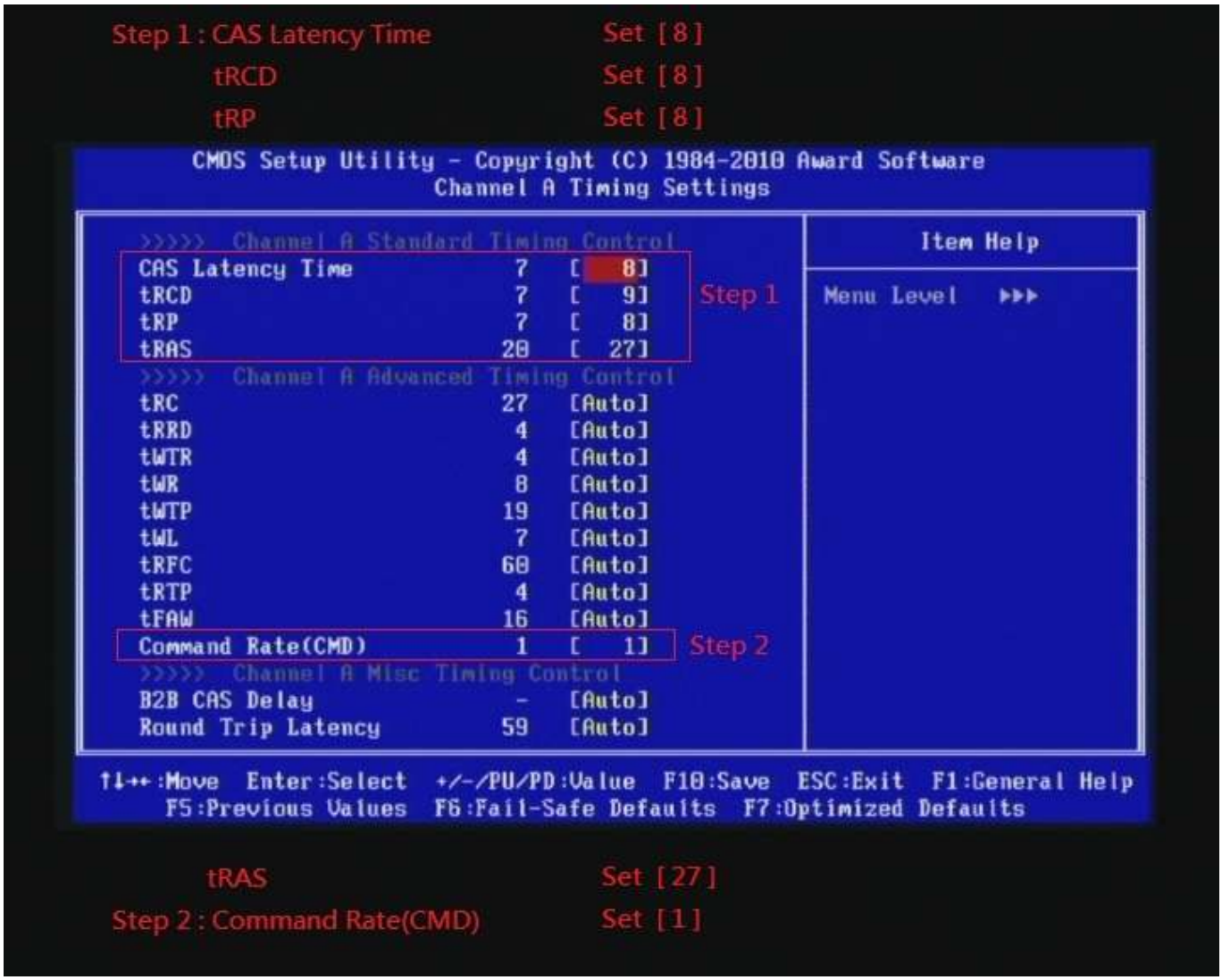
7. set [CAS Latency Time] item to [8]

   set [tRCD] item to [9]

   set [tRP] item to [8]

   set [tRAS] item to [27]

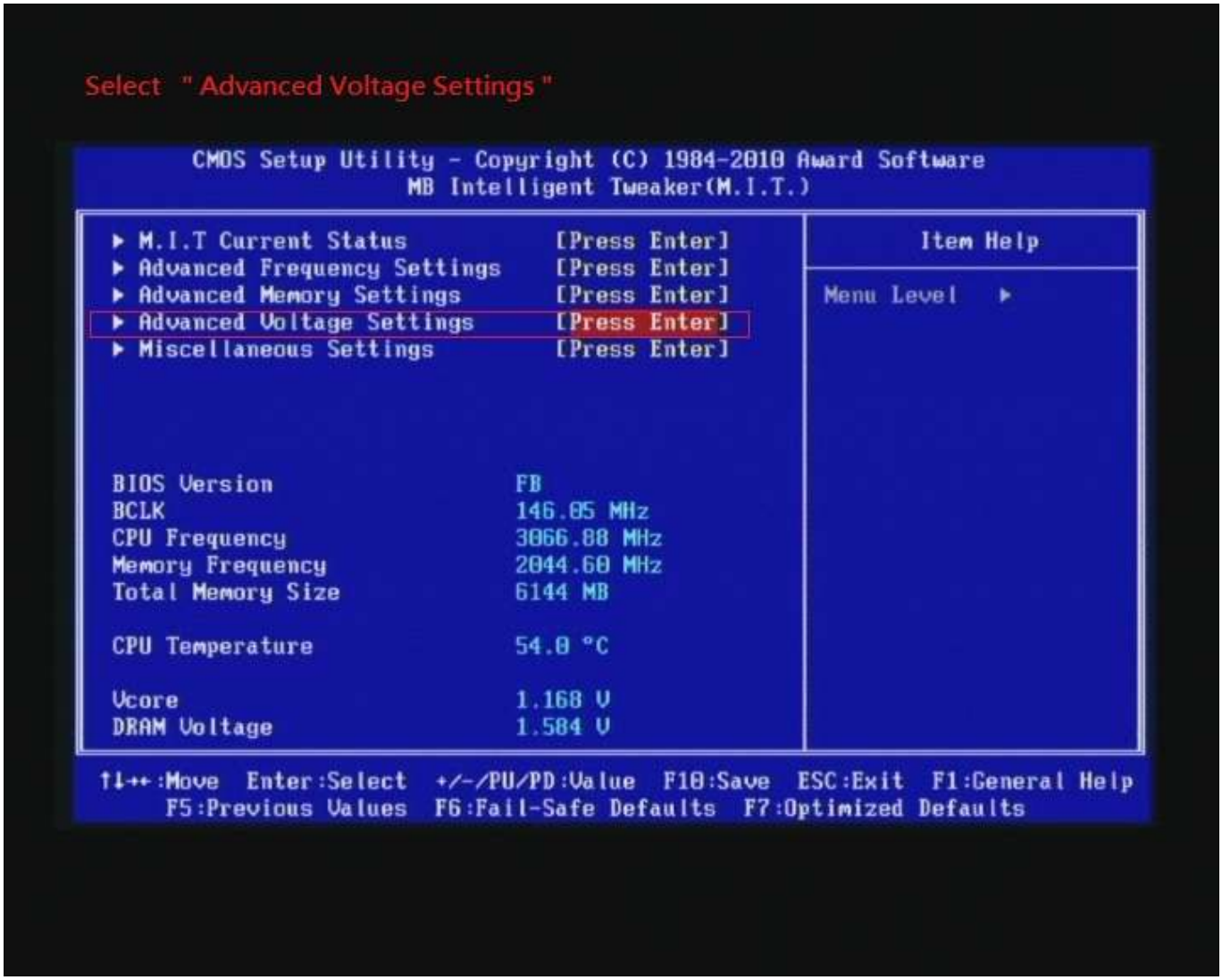
   set [DRAM Timing Mode] item to [1]



   then return to previous to

   [MB Intelligent Tweaker(M.I.T.)] menu

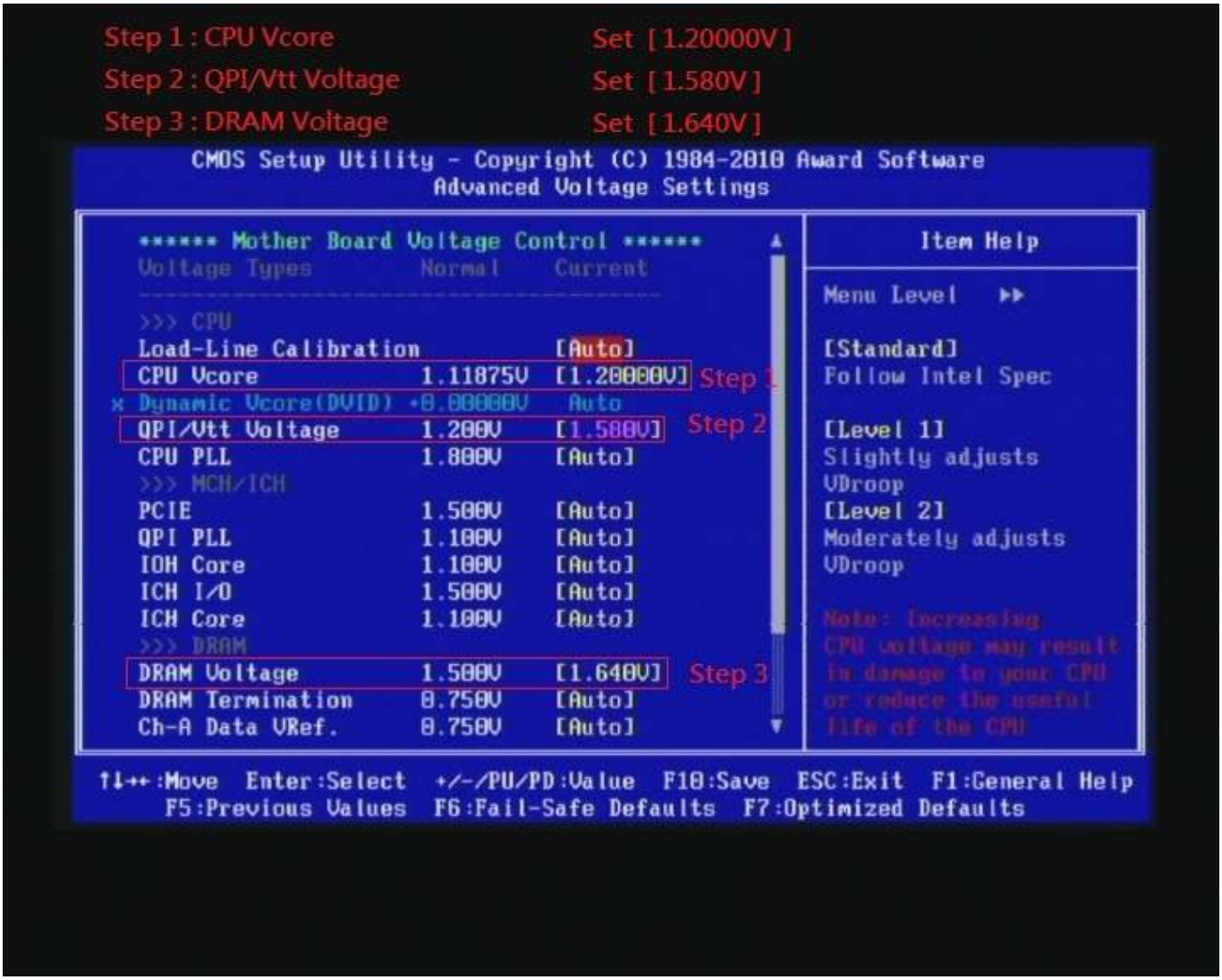
8. Enter [Advance Voltage Setting] item



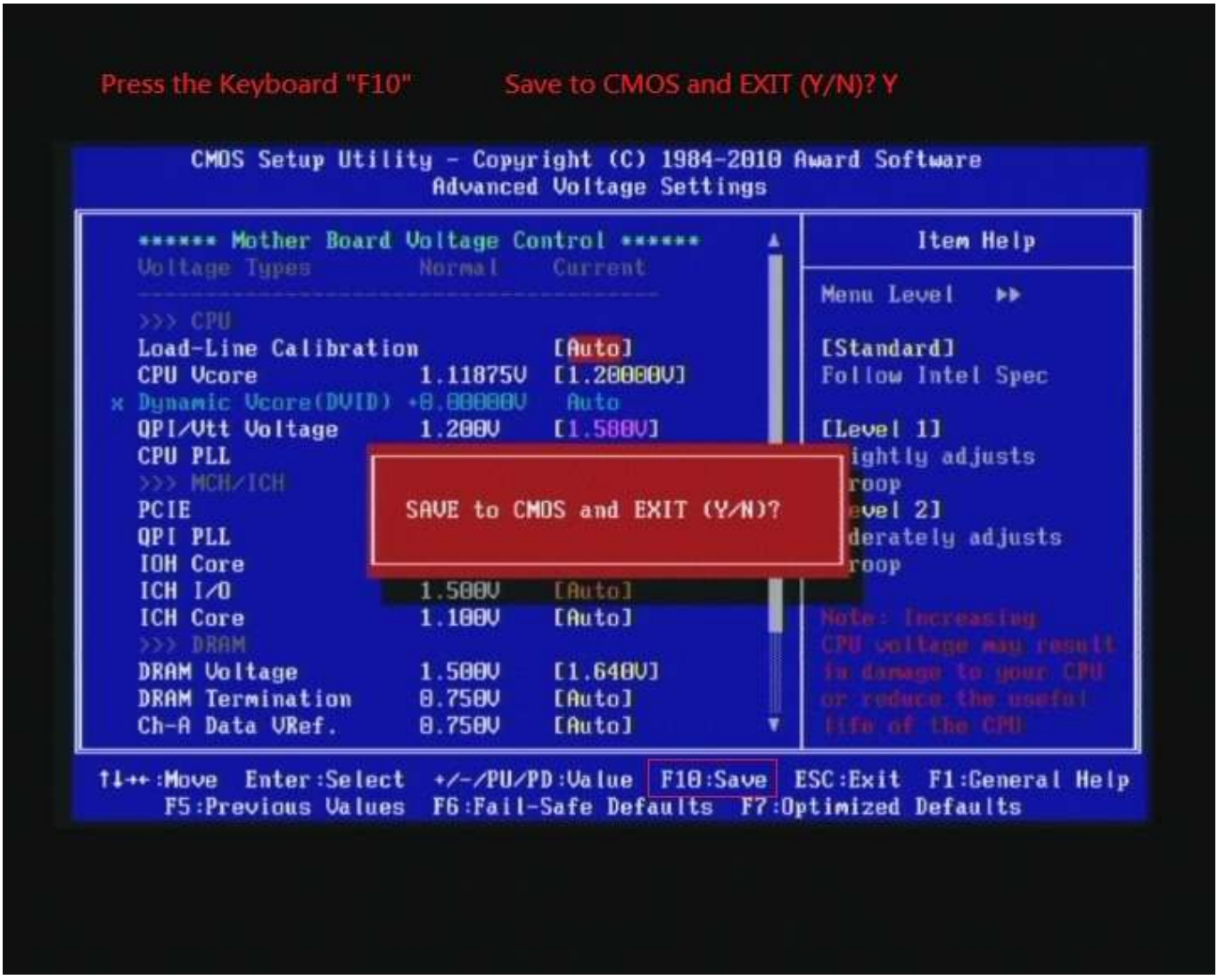
9. Select [CPU Vcore] item to [1.20008V]

Select [QPI/Vtt Voltage] item , and set the value to [1.580].

Select[DRAM Voltage] item , and set the value to [1.640V]



10. Save BIOS changes [F10] and exit



Test result?

We use the strictest stress testing， multi-core MemTest in window 7， to show you PRINCO DDR3-1800 potential.

(Data rate：952.2*2=1904， timing：8, 9, 8, 27， multi-core test => pass!)