

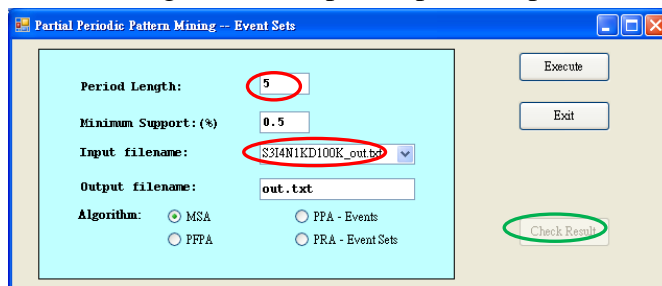
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/*****
/* Description: How to generate Figure 4(a)(b)(c)
/* Note: The experiments were implemented in Visual 2010 C#
/* and executed on a PC with 2.4 GHz CPU and 3.0 GB memory.
/* Author : Kung-Jiuan Yang
/*****

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Figure 4(a) :

1. Set Period length to “5”, and input file to “S3I4N1KD100K_out.txt”. And choose any one of “Algorithm” and different minimum Support (%) (From 0.3%~0.7%) values to generate the partial periodic patterns.



2. Once the “Running → Done !” shows up, an output file is created under your “c:\” directory. You can click “Check Result” button to check the output.
3. In the output file (out.txt), you can see the information about execute milliseconds count which is necessary for the Figure 3. Collect all the values for different minimum support thresholds (0.03%~0.07%) for the algorithm you choose.
4. After finishing any one of algorithm between 0.03%~0.07%, you can collect the “Execute milliseconds” from output file to create the Excel chart.

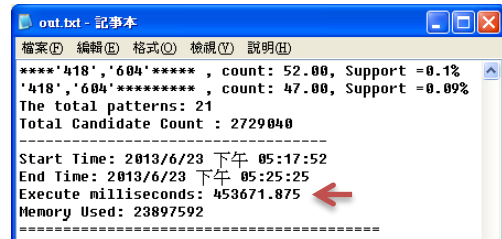
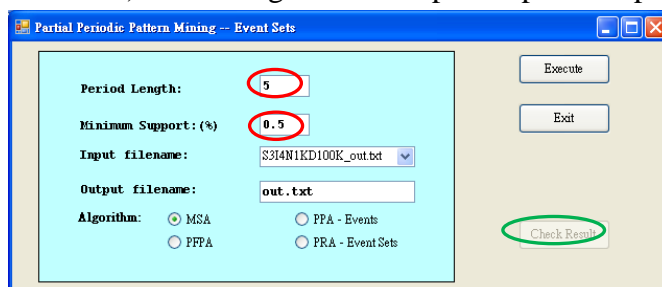


Figure 4(b) :

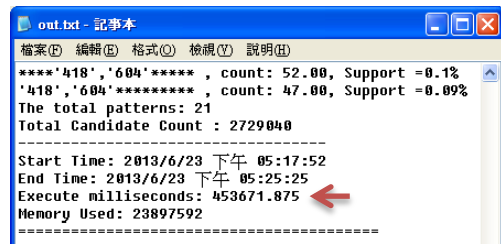
1. Set Period length to “5”, and Minimum support to “0.5”. And choose any one of “Algorithm” and different data length of Input file (50K, 100K, 150K, 200K, or 500K) values to generate the partial periodic patterns.



2. Once the “Running → Done !” shows up, an output file is created under your “c:\”

directory. You can click “Check Result” button to check the output.

3. In the output file (out.txt), you can see the information about execute milliseconds which is the necessary for the Figure 3. Collect all the values for size of data of the algorithm you choose.



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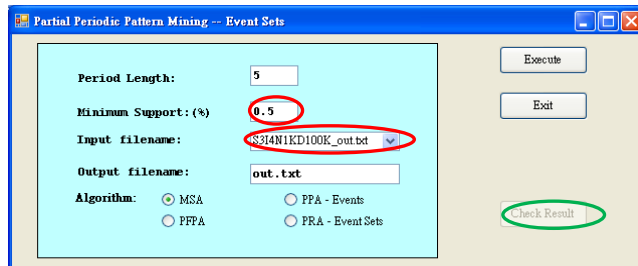
out.txt - 記事本
-----
****'418','604'***** , count: 52.00, Support =0.1%
'418','604'***** , count: 47.00, Support =0.09%
The total patterns: 21
Total Candidate Count : 2729040
-----
Start Time: 2013/6/23 下午 05:17:52
End Time: 2013/6/23 下午 05:25:25
Execute milliseconds: 453671.875
Memory Used: 23897592
=====

```

4. After finishing any one of algorithm, you can collect the values of “Execute milliseconds” from output file to create the Excel chart.

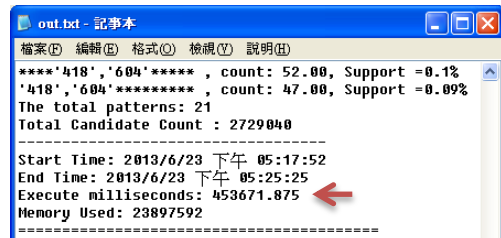
Figure 4(c) :

1. Set Minimum support to “0.5”, and input file to “S3I4N1KD100K_out.txt”. And choose any one of “Algorithm” to generate the partial periodic patterns.



2. Once the “Running → Done !” shows up, an output file is created under your “c:\” directory. You can click “Check Result” button to check the output.

3. In the output file (out.txt), you can see the information about execute milliseconds which is the necessary for the Figure 3. Collect all the values of period length (5, 10, 15, 20, 25, 30) of the algorithm you choose.



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out.txt - 記事本
-----
****'418','604'***** , count: 52.00, Support =0.1%
'418','604'***** , count: 47.00, Support =0.09%
The total patterns: 21
Total Candidate Count : 2729040
-----
Start Time: 2013/6/23 下午 05:17:52
End Time: 2013/6/23 下午 05:25:25
Execute milliseconds: 453671.875
Memory Used: 23897592
=====

```

4. After finishing any one of algorithm, you can collect the values of “Execute milliseconds” from output file to create the Excel chart.