## Results 2

<table>
<thead>
<tr>
<th></th>
<th>Tuned</th>
<th>Tuned + Flags</th>
<th>Flipped index</th>
</tr>
</thead>
<tbody>
<tr>
<td>kernel1 (MFlops)</td>
<td>76</td>
<td>86</td>
<td>96</td>
</tr>
<tr>
<td>kernel2 (MFlops)</td>
<td>50</td>
<td>52</td>
<td>70</td>
</tr>
<tr>
<td>propagate (Mb/sec)</td>
<td>2.4</td>
<td>3.4</td>
<td>0.9 (0.6)</td>
</tr>
</tbody>
</table>
A summary of timing and scalability.

<table>
<thead>
<tr>
<th></th>
<th>Untuned</th>
<th>Tuned</th>
<th>Tuned + Flags</th>
<th>Flipped index</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loops</td>
<td>6409</td>
<td>1711</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Types</td>
<td>5682</td>
<td>988</td>
<td>882</td>
<td>1049</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grid Size / #PEs</th>
<th>Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>4096</td>
<td>100</td>
</tr>
<tr>
<td>1024</td>
<td>95</td>
</tr>
<tr>
<td>256</td>
<td>67</td>
</tr>
</tbody>
</table>
Screen captures are from Apprentice. To use Apprentice, compile your code in the following way:

- `f90 -eA -lapp -o prog prog.f90`
- `cc -h apprentice -lapp -o prog prog.f90`
- `pghpf -eA -lapp -o prog prog.hpf`

Run the program to produce a file "app.rtf", this file is analyzed by the apprentice tool.