## Suricata - Bug #3053

### Replace atoi with StringParse* for better error handling

06/20/2019 06:51 AM - Philippe Antoine

<table>
<thead>
<tr>
<th>Status</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority</td>
<td>High</td>
</tr>
<tr>
<td>Assignee</td>
<td>Shivani Bhardwaj</td>
</tr>
<tr>
<td>Category</td>
<td></td>
</tr>
<tr>
<td>Target version</td>
<td>6.0.0beta1</td>
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<tr>
<td>Affected Versions</td>
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<tr>
<td>Difficulty</td>
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<td>Label</td>
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### Description

See [https://wiki.sei.cmu.edu/confluence/display/c/ERR34-C.+Detect+errors+when+converting+a+string+to+a+number](https://wiki.sei.cmu.edu/confluence/display/c/ERR34-C.+Detect+errors+when+converting+a+string+to+a+number)

And grepping atom gives results such as

```c
src/detect-modbus.c: modbus->address->min = atoi((const char*) (arg+1));
```

### Related issues:

Related to Bug #2080: Rules with bad port group var do not error

### History

#### #1 - 06/20/2019 06:51 AM - Philippe Antoine
- Related to Bug #2080: Rules with bad port group var do not error added

#### #2 - 06/20/2019 07:39 AM - Victor Julien
I think we should use a wrapper to keep code compact. We might be able to use/reuse the wrappers in util-byte.c

#### #3 - 06/30/2019 08:13 PM - Andreas Herz
- Assignee set to OISF Dev
- Target version set to TBD

#### #4 - 07/17/2019 06:02 AM - Victor Julien
[https://github.com/OISF/suricata/pull/4019](https://github.com/OISF/suricata/pull/4019)
Keeping the ticket open as there are more places we'd like to see this fixed.

#### #5 - 07/22/2019 02:02 PM - Victor Julien
- Subject changed from Replace atoi with strtol for better error handling to Replace atoi with ByteExtractString* for better error handling
- Priority changed from Normal to High
- Target version changed from TBD to 5.0rc1

#### #6 - 07/28/2019 04:21 PM - Shivani Bhardwaj
- Status changed from New to Assigned
- Assignee changed from OISF Dev to Shivani Bhardwaj

#### #7 - 09/01/2019 08:26 AM - Shivani Bhardwaj
- Status changed from Assigned to Feedback

#### #8 - 09/02/2019 01:02 PM - Shivani Bhardwaj
- Status changed from Feedback to Assigned

#### #9 - 09/09/2019 06:08 PM - Victor Julien
- Target version changed from 5.0rc1 to 6.0.0beta1
#10 - 12/23/2019 01:22 AM - Shivani Bhardwaj
- Subject changed from Replace atoi with ByteExtractString* for better error handling to Replace atoi with StringParse* for better error handling

#11 - 02/25/2020 03:48 PM - Victor Julien
- Status changed from Assigned to In Review

https://github.com/OISF/suricata/pull/4488

#12 - 07/09/2020 08:35 AM - Shivani Bhardwaj
- Status changed from In Review to Closed

Batch 1: https://github.com/OISF/suricata/pull/4874
Batch 2: https://github.com/OISF/suricata/pull/5101
Batch 3: https://github.com/OISF/suricata/pull/5144
Batch 4: https://github.com/OISF/suricata/pull/5148