

## Arvados - Bug #14451

### crunchstat-summary recommends 563 TB Keep cache (or more!)

11/03/2018 06:48 PM - Tom Morris

<b>Status:</b>	Resolved	<b>Start date:</b>	03/15/2019
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Tom Morris	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2019-03-27 Sprint		
<b>Description</b>			
Even given the low cache utilization, that seems like a lot			
<pre>### Summary for make_examples_4 (e51c5-dz642-id66uhhem9viqk0) # Keep cache miss rate 0.19% # Keep cache utilization 52.15% ##! make_examples_4 max RSS was 336 MiB -- try runtime_constraints "ram":1020054732 ##! make_examples_4 Keep cache utilization was 52.15% -- try runtime_constraints "keep_cache_ram": 562949953421312 (or more)</pre>			
<b>Subtasks:</b>			
Task # 14961: Review 14451-crunchstat-summary-cache-ram			<b>Resolved</b>

#### Associated revisions

##### Revision 22bbbebe - 03/15/2019 04:05 AM - Tom Morris

Fix Keep cache recommendation calculation.

Remove extra MB (2\*\*20) factor. Refs #14451

Arvados-DCO-1.1-Signed-off-by: Tom Morris <[tfmorris@veritasgenetics.com](mailto:tfmorris@veritasgenetics.com)>

##### Revision b3ea1ab1 - 03/18/2019 09:07 PM - Tom Morris

Fix Keep cache recommendation calculation.

Remove extra MB (2\*\*20) factor. Refs #14451

Arvados-DCO-1.1-Signed-off-by: Tom Morris <[tfmorris@veritasgenetics.com](mailto:tfmorris@veritasgenetics.com)>

##### Revision 7f93b99e - 03/21/2019 08:00 PM - Tom Morris

Fix Keep cache recommendation calculation.

Remove extra MB (2\*\*20) factor. Refs #14451

Arvados-DCO-1.1-Signed-off-by: Tom Morris <[tfmorris@veritasgenetics.com](mailto:tfmorris@veritasgenetics.com)>

##### Revision d23f9c8a - 03/21/2019 08:02 PM - Tom Morris

Merge branch '14451-crunchstat-summary-cache-ram'

Fix three small crunchstat-summary issues:

- Use default of 1 if no cores requested. fixes #12026
- Don't recommend RAM or CPU changes based on zero usage. fixes #10570
- Remove extra MB (2\*\*20) factor in Keep cache recommendation. Fixes #14451

Arvados-DCO-1.1-Signed-off-by: Tom Morris <[tfmorris@veritasgenetics.com](mailto:tfmorris@veritasgenetics.com)>

#### History

##### #1 - 01/02/2019 05:06 PM - Tom Clegg

[source:tools/crunchstat-summary/crunchstat\\_summary/summarizer.py](#) probably needs to multiply by `self._runtime_constraint_mem_unit()/1048576` when computing `asked_mib` here:

```
def _recommend_keep_cache(self):
```

```
...  
    asked_mib = self.existing_constraints.get (constraint_key, 256)  
...  
    asked_mib*2*(2**20)/self._runtime_constraint_mem_unit()
```

**#2 - 03/13/2019 03:43 PM - Tom Morris**

- *Assigned To set to Tom Morris*
- *Target version set to 2019-03-27 Sprint*

**#3 - 03/15/2019 04:42 AM - Tom Morris**

- *Status changed from New to In Progress*

**#4 - 03/21/2019 08:16 PM - Tom Morris**

- *Status changed from In Progress to Resolved*
- *% Done changed from 0 to 100*

Applied in changeset [arvados|d23f9c8a99742f116983ce644f25d7ddacfbee4e](#).

**#5 - 05/21/2019 10:27 PM - Tom Morris**

- *Release set to 15*