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# fix: prevent integer overflow in memory size calculation for tensors #16481

Merged[mhs4670go](#) merged 5 commits into [Samsung:master](#) from [chunseoklee:bounty](#)

2 weeks ago

[Conversation](#) 4 [Commits](#) 5 [Checks](#) 13 [Files changed](#) 9**chunseoklee** commented [2 weeks ago](#)Contributor

This commit addresses potential integer overflow issues in memory size calculations by:

- Changing num\_elements type from int32\_t to int64\_t
- Adding overflow checks before size calculations
- Using large\_num\_elements() instead of num\_elements()
- Casting final size to size\_t after overflow validation

The changes affect BuddyMemoryManager and several kernel implementations (ExpandDims, If, Reshape, TransposeConv) to ensure safe memory operations with large tensors.

ONE-DCO-1.0-Signed-off-by: Chunseok Lee [chunseok.lee@samsung.com](mailto:chunseok.lee@samsung.com)

[fix: prevent integer overflow in memory size calculation for tensors](#) ...✖ [be00662](#)**mhs4670go** commented [2 weeks ago](#)Collaborator

[@chunseoklee](#)

Got format error.

👁 1

 **chunseoklee** added 3 commits [2 weeks ago](#)

-   [fix format](#) ✖ [16c0c2a](#)
-   [delete dummy file](#) ✖ [7dd8a67](#)
-   [fix runtime error](#) ✖ [6250115](#)

**mhs4670go** commented [2 weeks ago](#)

Collaborator

[@chunseoklee](#) Build error T\_T

**chunseoklee** commented [2 weeks ago](#)

Contributor

Author

[@chunseoklee](#) Build error T\_T

it is very strange since it succeed on my local.

  [fix](#) ✔ [b9f7a5d](#)



 **mhs4670go** approved these changes [2 weeks ago](#)

[View reviewed changes](#)

 **mhs4670go** left a comment

Collaborator

LGTM

  **mhs4670go** merged commit [95fba2d](#) into [Samsung:master](#) [2 weeks ago](#)  
13 checks passed

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**Reviewers**

 **mhs4670go**



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**Assignees**

No one assigned

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**Labels**

None yet

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**Projects**

None yet

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**Milestone**

No milestone

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**Development**

Successfully merging this pull request may close these issues.

None yet

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**2 participants**

