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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 days ago

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

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

Got format error.

👁 1

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

  [fix format](#) ✖ [16c0c2a](#)

  [delete dummy file](#) ✖ [7dd8a67](#)

  [fix runtime error](#) ✖ [6250115](#)

mhs4670go commented [2 days ago](#)

Collaborator

[@chunseoklee](#) Build error T_T

chunseoklee commented [2 days 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 days ago](#)

[View reviewed changes](#)

 **mhs4670go** left a comment

Collaborator

LGTM

  **mhs4670go** merged commit [95fba2d](#) into [Samsung:master](#) [2 days ago](#)

13 checks passed

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Reviewers

 **mhs4670go**



Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

2 participants

