

```

import json
import os
import re
from collections import OrderedDict
import pandas as pd

def categorize_reason(reason):
    group="Others"
    if reason.startswith("error:"):
        group="Expected Error"
    if reason.startswith("onnx-mlir:"):
        group="mlir Failure"
    category="Others"
    source="Others"
    if re.search(r"error:\s*Shape inference failed,\s*[0-9]+\s+operations couldn't be inferred",reason):
        category="Operations couldn't be inferred"
        source="Shape inference failed"
    elif re.search(r"Attributes.cpp.*hasSameElementsOrSplat",reason):
        category="Attributes.cpp 'hasSameElementsOrSplat' assertion failure"
        source="Attributes.cpp"
    elif re.search(r"Attributes.cpp.*numElements.*type.getNumElements()",reason):
        category="Attributes.cpp 'numElements' assertion failure"
        source="Attributes.cpp"
    elif re.search(r"Attributes.cpp.*isValidIntOrFloat",reason):
        category="Attributes.cpp 'isValidIntOrFloat' assertion failure"
        source="Attributes.cpp"
    elif re.search(r"op operand #[0-9]* must be tensor",reason):
        category=reason
        source="op operand must be tensor"
    elif re.search(r"Types.h.*isa<U>",reason):
        category="Types.h 'isa<U>' assertion failure"
        source="Types.h"
    elif re.search(r"Types.h.*isa<> used on a null type",reason):
        category="Types.h Assertion impl && isa<> used on a null type."
        source="Types.h"
    elif re.search(r"FrontendDialectTransformer.cpp.*starts type is not a RankedTensorType",reason):
        category="FrontendDialectTransformer.cpp Assertion startsType != nullptr && starts type is not a
RankedTensorType failed."
        source="FrontendDialectTransformer.cpp"
    elif re.search(r"Casting.h.*cast<Ty>\(\) argument of incompatible type",reason):
        category="Casting.h Assertion isa<X>(Val) && cast<Ty>() argument of incompatible type! failed."
        source="Casting.h"
    elif re.search(r"ConstProp.cpp.*rhsFreeRank",reason):
        category="ConstProp.cpp Assertion rhsFreeRank == 0 && expect both to recurse to zero at the same
time failed."
        source="ConstProp.cpp"
    elif re.search(r"AffineOps.cpp.*map.getNumInputs.*mapOperands.size",reason):
        category="Assertion map.getNumInputs() == mapOperands.size() && inconsistent index info failed."
        source="AffineOps.cpp"
    elif re.search(r"UNREACHABLE executed at.*FrontendDialectTransformer.cpp",reason):
        category="UNREACHABLE executed at"
        source="FrontendDialectTransformer.cpp"
    elif re.search(r"UNREACHABLE executed at.*FrontendDialectHelper.cpp",reason):
        category="UNREACHABLE executed at"
        source="FrontendDialectHelper.cpp"
    elif re.search(r"error:\s*shape inference failed",reason):
        category="Others"
        source="Shape inference failed"
    elif re.search(r".*CHECK failed.*current_size_",reason):

```

```

        category="CHECK failed"
        source="CHECK failed"
        return group,category,source

def sum_result(result):
    summary={}
    summary['total_count'] = len(result["result"].keys())
    success_runs = [ onnx_result for onnx_result in result["result"].items() if onnx_result[1]["success"]
]
    failed_runs = [ onnx_result for onnx_result in result["result"].items() if not onnx_result[1]
["success"] ]
    summary['success_count']=len(success_runs)
    summary['succeeded_onnx']=[success_run[0] for success_run in success_runs]
    summary['failed_count']=len(failed_runs)
    summary['execution_timestamp']=result["execution_time"]
    summary['zoo_dir']=result["zoo_dir"]
    summary['zoo_git_source'] = result["zoo_git_source"]
    summary["zoo_git_url"] = re.search(r'\b(git@[A-Za-z0-9.]+:[A-Za-z0-9.]+/[A-Za-z0-9.]+)\b',
result["zoo_git_source"]).group(0)
    summary['zoo_git_commit']=result["git_commit"]
    summary['onnx_mlir_image']=result["onnx_mlir_image"]["RepoDigests"]
    summary['onnx_mlir_image_creation']=result["onnx_mlir_image"]["Created"]
    summary['onnx_mlir_image_id']=result["onnx_mlir_image"]["Id"]
    summary['onnx_mlir_image_arch']=result["onnx_mlir_image"]["Architecture"]
    failed_details=[]
    for failed_run in failed_runs:
        failed_file=failed_run[0]
        failed_detail=failed_run[1]
        failed_detail["file"]=failed_file
        lines=failed_detail["error"].splitlines()
        last_line=None
        for line in lines:
            if line.startswith("mv:"):
                break
            if line.strip():
                last_line=line
        failed_detail["reason"]=last_line
        failed_details.append(failed_detail)
        group,category,source=categorize_reason(last_line)
        failed_detail["category_group"]=group
        failed_detail["category"]=category
        failed_detail["source"]=source
    summary["failed_details"]=failed_details
    summary["failed_sources"]=pd.value_counts([detail["source"] for detail in
summary["failed_details"]]).to_dict()
    summary["failed_groups"]=pd.value_counts([detail["category_group"] for detail in
summary["failed_details"]]).to_dict()

#         if failed_detail["source"] == "Others":
#             print(failed_detail["reason"])
    return summary

update=True
new_results=[]
processed_results=None
with open("summary.dbjs","r") as summary_db:
    processed_results = json.load(summary_db)
    summary_db.close()
for json_file in os.listdir("."):
    if json_file.endswith(".json"):
        with open(json_file,'r') as fp:
            result=json.load(fp)

```

```

    if json_file not in processed_results or update:
        summary=sum_result(result)
        new_results.append(summary)
        processed_results[json_file]=summary
    else:
        continue

```

New ONNX MLIR compilation result

I executed ONNX MLIR twice with different versions of docker image onnxmlirczar/onnx-mlir-build:x86.

1. New Version: 2020-10-12T21:37:40.936418611Z
2. Old Version: 2020-09-23T19:47:15.588547807Z

ONNX MLIR Compiling Target: [ONNX Model Zoo](#)

```

new_results_df = pd.DataFrame(new_results)
display(new_results_df[["zoo_git_url", "total_count", "success_count", "failed_count", "onnx_mlir_image_creation", "succeeded_onnx"]].transpose())

```

```

.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}

```

	0	1
zoo_git_url	git@github.com:onnx/models.git	git@github.com:onnx/models.git
total_count	118	118
success_count	17	17
failed_count	101	101
onnx_mlir_image_creation	2020-10-12T21:37:40.936418611Z	2020-09-23T19:47:15.588547807Z
succeeded_onnx	./models/vision/classification/mnist/model/mn...	./models/vision/classification/mnist/model/mn...

ONNX Files Compiled Successfully with onnx-mlir:

```
new_results_df["succeeded_onnx"][0]
```

```

['./models/vision/classification/mnist/model/mnist-7.onnx',
 './models/vision/classification/mnist/model/mnist-8.onnx',
 './models/vision/classification/resnet/model/resnet50-caffe2-v1-6.onnx',
 './models/vision/classification/resnet/model/resnet50-caffe2-v1-7.onnx',
 './models/vision/classification/resnet/model/resnet50-caffe2-v1-8.onnx',
 './models/vision/classification/resnet/model/resnet50-caffe2-v1-9.onnx',
 './models/vision/classification/shufflenet/model/shufflenet-6.onnx',
 './models/vision/classification/shufflenet/model/shufflenet-7.onnx',
 './models/vision/classification/shufflenet/model/shufflenet-8.onnx',

```

```

'./models/vision/classification/shufflenet/model/shufflenet-9.onnx',
'./models/vision/classification/shufflenet/model/shufflenet-v2-10.onnx',
'./models/vision/classification/vgg/model/vgg19-caffe2-6.onnx',
'./models/vision/classification/vgg/model/vgg19-caffe2-7.onnx',
'./models/vision/classification/vgg/model/vgg19-caffe2-8.onnx',
'./models/vision/classification/vgg/model/vgg19-caffe2-9.onnx',
'./models/vision/object_detection_segmentation/duc/model/ResNet101-DUC-7.onnx',
'./models/vision/object_detection_segmentation/yolov2-coco/model/yolov2-coco-9.onnx']

```

```

display("New Succeeded: {}".format(set(new_results_df["succeeded_onnx"][0]) - set(new_results_df["succeeded_onnx"]
[1])))
display("Failed in new version {}".format(set(new_results_df["succeeded_onnx"][1]) -
set(new_results_df["succeeded_onnx"][0])))

```

```
"New Succeeded: {'./models/vision/classification/shufflenet/model/shufflenet-v2-10.onnx'}"
```

```
"Failed in new version {'./models/vision/classification/squeezenet/model/squeezenet1.1-7.onnx'}"
```

Failed Reason Groups

```

sources=pd.DataFrame(new_results_df["failed_groups"].to_list())
display(sources.transpose())

```

```

.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}

```

	0	1
Expected Error	64	62
Others	3	3
mlir Failure	34	36

Failed Sources

```

sources=pd.DataFrame(new_results_df["failed_sources"].to_list())
display(sources.transpose())

```

```

.dataframe tbody tr th {
    vertical-align: top;
}

.dataframe thead th {
    text-align: right;
}

```

	0	1
AffineOps.cpp	1	1
Attributes.cpp	4	4
CHECK failed	1	1
Casting.h	2	2
ConstProp.cpp	1	1
FrontendDialectHelper.cpp	1	1
FrontendDialectTransformer.cpp	3	3
Shape inference failed	54	52
Types.h	24	26
op operand must be tensor	10	10

Failure Details

```
from IPython.display import display, Markdown
for failed_detail in new_results_df["failed_details"][0]:
    display(Markdown("+ #### ONNX File: {}".format(failed_detail["file"])))
    display(Markdown("\t\t- Group:   {}\n\t\t- Source:  {}\n\t\t- Category: {}\n\t\t- Reason:  {}\n\t\t- Return Code:
{}\n".format(failed_detail["category_group"],failed_detail["source"],failed_detail["category"],failed_detail["reason"],failed_detail["return_code"])))
```

- ONNX File: ./models/text/machine_comprehension/bert-squad/model/bertsquad-10.onnx

```
- Group:    mlir Failure
- Source:   Attributes.cpp
- Category: Attributes.cpp 'numElements' assertion failure
- Reason:   onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:1117: static mlir::DenseElementsAttr
mlir::DenseIntOrFPElementsAttr::getRawIntOrFloat(mlir::ShapedType, llvm::ArrayRef<char>, int64_t, bool, bool):
Assertion `numElements == 1 || numElements == type.getNumElements()' failed.
- Return Code:1
```

- ONNX File: ./models/text/machine_comprehension/bert-squad/model/bertsquad-8.onnx

```
- Group:    mlir Failure
- Source:   Attributes.cpp
- Category: Attributes.cpp 'hasSameElementsOrSplat' assertion failure
- Reason:   onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:720: static mlir::DenseElementsAttr
mlir::DenseElementsAttr::get(mlir::ShapedType, llvm::ArrayRef<mlir::Attribute>): Assertion
`hasSameElementsOrSplat(type, values)' failed.
- Return Code:1
```

- ONNX File: ./models/text/machine_comprehension/bidirectional_attention_flow/model/bidaf-9.onnx

```
- Group:      mlir Failure
- Source:     Attributes.cpp
- Category:   Attributes.cpp 'hasSameElementsOrSplat' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:720: static mlir::DenseElementsAttr
mlir::DenseElementsAttr::get(mlir::ShapedType, llvm::ArrayRef<mlir::Attribute>): Assertion
`hasSameElementsOrSplat(type, values)' failed.
- Return Code:1
```

• ONNX File: ./models/text/machine_comprehension/gpt-2/model/gpt2-10.onnx

```
- Group:      mlir Failure
- Source:     FrontendDialectTransformer.cpp
- Category:   FrontendDialectTransformer.cpp Assertion startsType != nullptr && starts type is not a
RankedTensorType failed.
- Reason:     onnx-mlir: /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:454: void
onnx_mlir::detail::FrontendGenImpl::ImportNodeSlice(const onnx::NodeProto&): Assertion `startsType != nullptr &&
"starts type is not a RankedTensorType"' failed.
- Return Code:1
```

• ONNX File: ./models/text/machine_comprehension/gpt-2/model/gpt2-lm-head-10.onnx

```
- Group:      mlir Failure
- Source:     Attributes.cpp
- Category:   Attributes.cpp 'isValidIntOrFloat' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:1113: static mlir::DenseElementsAttr
mlir::DenseIntOrFPElementsAttr::getRawIntOrFloat(mlir::ShapedType, llvm::ArrayRef<char>, int64_t, bool, bool):
Assertion `::isValidIntOrFloat(type.getElementType(), dataEltSize, isInt, isSigned)' failed.
- Return Code:1
```

• ONNX File: ./models/text/machine_comprehension/roberta/model/roberta-base-11.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 956 operations couldn't be inferred
- Return Code:1
```

• ONNX File: ./models/text/machine_comprehension/roberta/model/roberta-sequence-classification-9.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 959 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/text/machine_comprehension/t5/model/t5-decoder-with-lm-head-12.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Cast' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or tensor of 8-bit signless integer values or tensor of 16-bit signless
integer values or tensor of 32-bit signless integer values or tensor of 64-bit signless integer values or tensor
of 8-bit unsigned integer values or tensor of 16-bit unsigned integer values or tensor of 32-bit unsigned integer
values or tensor of 64-bit unsigned integer values or tensor of 1-bit signless integer values or tensor of string
type values or memref of any type values, but got 'none'
- Reason:     error: 'onnx.Cast' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or tensor of 8-bit signless integer values or tensor of 16-bit signless
integer values or tensor of 32-bit signless integer values or tensor of 64-bit signless integer values or tensor
of 8-bit unsigned integer values or tensor of 16-bit unsigned integer values or tensor of 32-bit unsigned integer
values or tensor of 64-bit unsigned integer values or tensor of 1-bit signless integer values or tensor of string
type values or memref of any type values, but got 'none'
- Return Code:1
```

- **ONNX File: ./models/text/machine_comprehension/t5/model/t5-encoder-12.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Min' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'tensor<*xi64>'
- Reason:     error: 'onnx.Min' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'tensor<*xi64>'
- Return Code:1
```

- **ONNX File: ./models/vision/body_analysis/arcface/model/arcfaceresnet100-8.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-2.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with
U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-7.onnx**

```
- Group:      mlir Failure
- Source:     Casting.h
- Category:   Casting.h Assertion isa<X>(Val) && cast<Ty>() argument of incompatible type! failed.
- Reason:     onnx-mlir: /build/llvm-project/llvm/include/llvm/Support/Casting.h:269: typename llvm::cast_retty<X,
Y*>::ret_type llvm::cast(Y*) [with X = llvm::FixedVectorType; Y = llvm::Type; typename llvm::cast_retty<X,
Y*>::ret_type = llvm::FixedVectorType*]: Assertion `isa<X>(Val) && "cast<Ty>() argument of incompatible type!"'
failed.
- Return Code:1
```

- **ONNX File: ./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-8.onnx**

```
- Group:      mlir Failure
- Source:     Casting.h
- Category:   Casting.h Assertion isa<X>(Val) && cast<Ty>() argument of incompatible type! failed.
- Reason:     onnx-mlir: /build/llvm-project/llvm/include/llvm/Support/Casting.h:269: typename llvm::cast_retty<X,
Y*>::ret_type llvm::cast(Y*) [with X = llvm::FixedVectorType; Y = llvm::Type; typename llvm::cast_retty<X,
Y*>::ret_type = llvm::FixedVectorType*]: Assertion `isa<X>(Val) && "cast<Ty>() argument of incompatible type!"'
failed.
- Return Code:1
```

- **ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-3.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-6.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-7.onnx**


```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-8.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-9.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-3.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-6.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-7.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-8.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-9.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/densenet-121/model/densenet-3.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:    onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/densenet-121/model/densenet-6.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:    onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/densenet-121/model/densenet-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/densenet-121/model/densenet-8.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/densenet-121/model/densenet-9.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/efficientnet-lite4/model/efficientnet-lite4-11.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 186 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-3.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-6.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-8.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-3.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-6.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-8.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 140 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-3.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with
U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-6.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with
U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-8.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-9.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/mnist/model/mnist-1.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 15 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/mobilenet/model/mobilenetv2-7.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-3.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 18 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-6.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/rcnn_ilstvc13/model/rcnn-ilstvc13-8.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/rcnn_ilstvc13/model/rcnn-ilstvc13-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/resnet/model/resnet101-v1-7.onnx**

```
- Group: mlir Failure
- Source: Types.h
- Category: Types.h 'isa<U>' assertion failure
- Reason: onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/resnet/model/resnet101-v2-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/resnet/model/resnet152-v1-7.onnx**


```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• ONNX File: ./models/vision/classification/resnet/model/resnet152-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• ONNX File: ./models/vision/classification/resnet/model/resnet18-v1-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• ONNX File: ./models/vision/classification/resnet/model/resnet18-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• ONNX File: ./models/vision/classification/resnet/model/resnet34-v1-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• ONNX File: ./models/vision/classification/resnet/model/resnet34-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/resnet/model/resnet50-caffe2-v1-3.onnx**

```
- Group:      mlir Failure
- Source:     AffineOps.cpp
- Category:   Assertion map.getNumInputs() == mapOperands.size() && inconsistent index info failed.
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/Dialect/Affine/IR/AffineOps.cpp:2048: static void
mlir::AffineLoadOp::build(mlir::OpBuilder&, mlir::OperationState&, mlir::Value, mlir::AffineMap,
mlir::ValueRange): Assertion `map.getNumInputs() == mapOperands.size() && "inconsistent index info"' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/resnet/model/resnet50-v1-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/resnet/model/resnet50-v2-7.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/shufflenet/model/shufflenet-3.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-3.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-6.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-8.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.1-7.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Others
- Reason:     error: shape inference failed
- Return Code:1
```

• **ONNX File: ./models/vision/classification/vgg/model/vgg16-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/vgg/model/vgg16-bn-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/vgg/model/vgg19-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/vgg/model/vgg19-bn-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

• **ONNX File: ./models/vision/classification/vgg/model/vgg19-caffe2-3.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 8 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-3.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-6.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-8.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
```

• **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/faster-rcnn/model/FasterRCNN-10.onnx**

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Resize' op operand #2 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Resize' op operand #2 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/mask-rcnn/model/MaskRCNN-10.onnx**

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Resize' op operand #2 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Resize' op operand #2 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/retinanet/model/retinanet-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 42 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/ssd-mobilenetv1/model/ssd_mobilenet_v1_10.onnx**

```
- Group: Others
- Source: FrontendDialectTransformer.cpp
- Category: UNREACHABLE executed at
- Reason: UNREACHABLE executed at /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:144!
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/ssd/model/ssd-10.onnx**

```
- Group:      mlir Failure
- Source:     ConstProp.cpp
- Category:   ConstProp.cpp Assertion rhsFreeRank == 0 && expect both to recurse to zero at the same time failed.
- Reason:     onnx-mlir: /build/onnx-mlir/src/Transform/ONNX/ConstProp.cpp:162: void
{anonymous}::RecurseConstPropElementwiseBinary(mlir::PatternRewriter&, std::vector<mlir::Attribute,
std::allocator<mlir::Attribute> >&, mlir::DenseElementsAttr, mlir::DenseElementsAttr, llvm::SmallVector<long
unsigned int, 4>&, llvm::SmallVector<long unsigned int, 4>&, int, int) [with ElementwiseBinaryOp =
mlir::ONNXMulOp]: Assertion `rhsFreeRank == 0 && "expect both to recurse to zero at the same time"' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-1.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Conv' op operand #1 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'none'
- Reason:     error: 'onnx.Conv' op operand #1 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'none'
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-8.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov3/model/tiny-yolov3-11.onnx**

```
- Group:      mlir Failure
- Source:     FrontendDialectTransformer.cpp
- Category:   FrontendDialectTransformer.cpp Assertion startsType != nullptr && starts type is not a
RankedTensorType failed.
- Reason:     onnx-mlir: /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:454: void
onnx_mlir::detail::FrontendGenImpl::ImportNodeSlice(const onnx::NodeProto&): Assertion `startsType != nullptr &&
"starts type is not a RankedTensorType"' failed.
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/yolov3/model/yolov3-10.onnx**

```
- Group:      Others
- Source:     FrontendDialectHelper.cpp
- Category:   UNREACHABLE executed at
- Reason:     UNREACHABLE executed at /build/onnx-mlir/src/Builder/FrontendDialectHelper.cpp:215!
- Return Code:1
```

- **ONNX File: ./models/vision/object_detection_segmentation/yolov4/model/yolov4.onnx**

```
- Group:      Others
- Source:     CHECK failed
- Category:   CHECK failed
- Reason:     what(): CHECK failed: (index) < (current_size_):
- Return Code:1
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/candy-8.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason:     error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/candy-9.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/mosaic-8.onnx**


```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/mosaic-9.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/pointilism-8.onnx

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/pointilism-9.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/rain-princess-8.onnx

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/rain-princess-9.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/udnie-8.onnx**

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/udnie-9.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
```

- **ONNX File: ./models/vision/super_resolution/sub_pixel_cnn_2016/model/super-resolution-10.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Others
- Reason: error: shape inference failed
- Return Code:1
```

Failure Detail with complete error output

```
from IPython.display import display, Markdown
for failed_detail in new_results_df["failed_details"][0]:
    display(Markdown("+ #### ONNX File: {}".format(failed_detail["file"])))
    display(Markdown("\t\t- Group:   {}\n\t\t- Source:  {}\n\t\t- Category:  {}\n\t\t- Reason:   {}\n\t\t- Return Code:  {}\n\t\t- Error"))
output:\n".format(failed_detail["category_group"],failed_detail["source"],failed_detail["category"],failed_detail["reason"],failed_detail["return_code"])))
    print(failed_detail["error"])
```

- **ONNX File: ./models/text/machine_comprehension/bert-squad/model/bertsquad-10.onnx**

```
- Group:      mlir Failure
- Source:     Attributes.cpp
- Category:   Attributes.cpp 'numElements' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:1117: static mlir::DenseElementsAttr
mlir::DenseIntOrFPElementsAttr::getRawIntOrFloat(mlir::ShapedType, llvm::ArrayRef<char>, int64_t, bool, bool):
Assertion `numElements == 1 || numElements == type.getNumElements()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:1117: static mlir::DenseElementsAttr
mlir::DenseIntOrFPElementsAttr::getRawIntOrFloat(mlir::ShapedType, llvm::ArrayRef<char>, int64_t, bool, bool):
Assertion `numElements == 1 || numElements == type.getNumElements()' failed.
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/bert-squad/model/bertsquad-10.so': No such file
or directory
```

• ONNX File: ./models/text/machine_comprehension/bert-squad/model/bertsquad-8.onnx

```
- Group:      mlir Failure
- Source:     Attributes.cpp
- Category:   Attributes.cpp 'hasSameElementsOrSplat' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:720: static mlir::DenseElementsAttr
mlir::DenseElementsAttr::get(mlir::ShapedType, llvm::ArrayRef<mlir::Attribute>): Assertion
`hasSameElementsOrSplat(type, values)' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:720: static mlir::DenseElementsAttr
mlir::DenseElementsAttr::get(mlir::ShapedType, llvm::ArrayRef<mlir::Attribute>): Assertion
`hasSameElementsOrSplat(type, values)' failed.
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/bert-squad/model/bertsquad-8.so': No such file or
directory
```

• ONNX File: ./models/text/machine_comprehension/bidirectional_attention_flow/model/bidaf-9.onnx

```
- Group:      mlir Failure
- Source:     Attributes.cpp
- Category:   Attributes.cpp 'hasSameElementsOrSplat' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:720: static mlir::DenseElementsAttr
mlir::DenseElementsAttr::get(mlir::ShapedType, llvm::ArrayRef<mlir::Attribute>): Assertion
`hasSameElementsOrSplat(type, values)' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:720: static mlir::DenseElementsAttr
mlir::DenseElementsAttr::get(mlir::ShapedType, llvm::ArrayRef<mlir::Attribute>): Assertion
`hasSameElementsOrSplat(type, values)' failed.
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/bidirectional_attention_flow/model/bidaf-9.so':
No such file or directory
```

• ONNX File: ./models/text/machine_comprehension/gpt-2/model/gpt2-10.onnx

```
- Group:      mlir Failure
- Source:     FrontendDialectTransformer.cpp
- Category:   FrontendDialectTransformer.cpp Assertion startsType != nullptr && starts type is not a
RankedTensorType failed.
- Reason:     onnx-mlir: /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:454: void
onnx_mlir::detail::FrontendGenImpl::ImportNodeSlice(const onnx::NodeProto&): Assertion `startsType != nullptr &&
"starts type is not a RankedTensorType"' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:454: void
onnx_mlir::detail::FrontendGenImpl::ImportNodeSlice(const onnx::NodeProto&): Assertion `startsType != nullptr &&
"starts type is not a RankedTensorType"' failed.
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/gpt-2/model/gpt2-10.so': No such file or
directory
```

• ONNX File: ./models/text/machine_comprehension/gpt-2/model/gpt2-lm-head-10.onnx

```
- Group:      mlir Failure
- Source:     Attributes.cpp
- Category:   Attributes.cpp 'isValidIntOrFloat' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:1113: static mlir::DenseElementsAttr
mlir::DenseIntOrFPElementsAttr::getRawIntOrFloat(mlir::ShapedType, llvm::ArrayRef<char>, int64_t, bool, bool):
Assertion `::isValidIntOrFloat(type.getElementType(), dataEltSize, isInt, isSigned)' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/lib/IR/Attributes.cpp:1113: static mlir::DenseElementsAttr
mlir::DenseIntOrFPElementsAttr::getRawIntOrFloat(mlir::ShapedType, llvm::ArrayRef<char>, int64_t, bool, bool):
Assertion `::isValidIntOrFloat(type.getElementType(), dataEltSize, isInt, isSigned)' failed.
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/gpt-2/model/gpt2-lm-head-10.so': No such file or
directory
```

• ONNX File: ./models/text/machine_comprehension/roberta/model/roberta-base-11.onnx


```
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed, 956 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/roberta/model/roberta-base-11.so': No such file or directory
```

• ONNX File: ./models/text/machine_comprehension/roberta/model/roberta-sequence-classification-9.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 959 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Indices tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
```


error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
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error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed, 959 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/roberta/model/roberta-sequence-classification-9.so': No such file or directory

- **ONNX File: ./models/text/machine_comprehension/t5/model/t5-decoder-with-lm-head-12.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Cast' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or tensor of 8-bit signless integer values or tensor of 16-bit signless
integer values or tensor of 32-bit signless integer values or tensor of 64-bit signless integer values or tensor
of 8-bit unsigned integer values or tensor of 16-bit unsigned integer values or tensor of 32-bit unsigned integer
values or tensor of 64-bit unsigned integer values or tensor of 1-bit signless integer values or tensor of string
type values or memref of any type values, but got 'none'
- Reason:     error: 'onnx.Cast' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or tensor of 8-bit signless integer values or tensor of 16-bit signless
integer values or tensor of 32-bit signless integer values or tensor of 64-bit signless integer values or tensor
of 8-bit unsigned integer values or tensor of 16-bit unsigned integer values or tensor of 32-bit unsigned integer
values or tensor of 64-bit unsigned integer values or tensor of 1-bit signless integer values or tensor of string
type values or memref of any type values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Cast' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float values or tensor
of 64-bit float values or tensor of 8-bit signless integer values or tensor of 16-bit signless integer values or
tensor of 32-bit signless integer values or tensor of 64-bit signless integer values or tensor of 8-bit unsigned
integer values or tensor of 16-bit unsigned integer values or tensor of 32-bit unsigned integer values or tensor
of 64-bit unsigned integer values or tensor of 1-bit signless integer values or tensor of string type values or
memref of any type values, but got 'none'
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/t5/model/t5-decoder-with-lm-head-12.so': No such
file or directory
```

- **ONNX File: ./models/text/machine_comprehension/t5/model/t5-encoder-12.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Min' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'tensor<*xi64>'
- Reason:     error: 'onnx.Min' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'tensor<*xi64>'
- Return Code:1
- Error output:
```

```
error: 'onnx.Min' op operand #0 must be tensor of 16-bit float values or tensor of 32-bit float values or tensor
of 64-bit float values or memref of any type values, but got 'tensor<*xi64>'
mv: cannot stat '/mnt/backup/./models/text/machine_comprehension/t5/model/t5-encoder-12.so': No such file or
directory
```

- **ONNX File: ./models/vision/body_analysis/arcface/model/arcfaceresnet100-8.onnx**


```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/body_analysis/arcface/model/arcfaceresnet100-8.so': No such file or directory
```

● ONNX File: ./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-2.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
mv: cannot stat '/mnt/backup/./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-2.so': No such file or directory
```

● ONNX File: ./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-7.onnx

```
- Group:      mlir Failure
- Source:     Casting.h
- Category:   Casting.h Assertion isa<X>(Val) && cast<Ty>() argument of incompatible type! failed.
- Reason:     onnx-mlir: /build/llvm-project/llvm/include/llvm/Support/Casting.h:269: typename llvm::cast_retty<X, Y*>::ret_type llvm::cast(Y*) [with X = llvm::FixedVectorType; Y = llvm::Type; typename llvm::cast_retty<X, Y*>::ret_type = llvm::FixedVectorType*]: Assertion `isa<X>(Val) && "cast<Ty>() argument of incompatible type!" failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/llvm/include/llvm/Support/Casting.h:269: typename llvm::cast_retty<X, Y*>::ret_type llvm::cast(Y*) [with X = llvm::FixedVectorType; Y = llvm::Type; typename llvm::cast_retty<X, Y*>::ret_type = llvm::FixedVectorType*]: Assertion `isa<X>(Val) && "cast<Ty>() argument of incompatible type!" failed.
mv: cannot stat '/mnt/backup/./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-7.so': No such file or directory
```

• ONNX File: ./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-8.onnx

```
- Group:      mlir Failure
- Source:     Casting.h
- Category:   Casting.h Assertion isa<X>(Val) && cast<Ty>() argument of incompatible type! failed.
- Reason:     onnx-mlir: /build/llvm-project/llvm/include/llvm/Support/Casting.h:269: typename llvm::cast_retty<X, Y*>::ret_type llvm::cast(Y*) [with X = llvm::FixedVectorType; Y = llvm::Type; typename llvm::cast_retty<X, Y*>::ret_type = llvm::FixedVectorType*]: Assertion `isa<X>(Val) && "cast<Ty>() argument of incompatible type!"' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/llvm/include/llvm/Support/Casting.h:269: typename llvm::cast_retty<X, Y*>::ret_type llvm::cast(Y*) [with X = llvm::FixedVectorType; Y = llvm::Type; typename llvm::cast_retty<X, Y*>::ret_type = llvm::FixedVectorType*]: Assertion `isa<X>(Val) && "cast<Ty>() argument of incompatible type!"' failed.
mv: cannot stat '/mnt/backup/./models/vision/body_analysis/emotion_ferplus/model/emotion-ferplus-8.so': No such file or directory
```

• ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-3.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
```

```
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 21 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/alexnet/model/bvlc_alexnet-3.so': No such file or directory
```

• ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-6.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 22 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/alexnet/model/bvlc_alexnet-6.so': No such file or directory
```

• ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-7.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 22 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/alexnet/model/bvlc_alexnet-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-8.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
```

```
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 22 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/alexnet/model/bvlc_alexnet-8.so': No such file or directory
```

• ONNX File: ./models/vision/classification/alexnet/model/bvlc_alexnet-9.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 22 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
```

```
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 22 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/alexnet/model/bvlc_alexnet-9.so': No such file or directory
```

• ONNX File: ./models/vision/classification/caffenet/model/caffenet-3.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape inference failed, 21 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/caffenet/model/caffenet-3.so': No such file or directory
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-6.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 20 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/caffenet/model/caffenet-6.so': No such file or
directory
```

• **ONNX File: ./models/vision/classification/caffenet/model/caffenet-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
```

```
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 21 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/caffenet/model/caffenet-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/caffenet/model/caffenet-8.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
```



```
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 21 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/caffenet/model/caffenet-8.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/caffenet/model/caffenet-9.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 21 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 21 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/caffenet/model/caffenet-9.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/densenet-121/model/densenet-3.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/densenet-121/model/densenet-3.so': No such file or directory
```

● ONNX File: ./models/vision/classification/densenet-121/model/densenet-6.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/densenet-121/model/densenet-6.so': No such file or directory
```

● ONNX File: ./models/vision/classification/densenet-121/model/densenet-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/densenet-121/model/densenet-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/densenet-121/model/densenet-8.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/densenet-121/model/densenet-8.so': No such file or directory
```

• ONNX File: ./models/vision/classification/densenet-121/model/densenet-9.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/densenet-121/model/densenet-9.so': No such file or directory
```

• ONNX File: ./models/vision/classification/efficientnet-lite4/model/efficientnet-lite4-11.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 186 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
```



```
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 186 operations couldn't be inferred
```

```
mv: cannot stat './mnt/backup/./models/vision/classification/efficientnet-lite4/model/efficientnet-lite4-11.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-3.onnx**


```
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-3.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-6.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-6.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-7.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-8.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-8.so': No such file or directory
```

- **ONNX File:** `./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-9.onnx`


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: shape inference failed
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error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/googlenet/model/googlenet-9.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-3.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
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error: shape inference failed
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error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
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error: shape inference failed
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error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-
v1-3.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-6.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat './models/vision/classification/inception_and_googlenet/inception_v1/model/inception-
v1-6.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-7.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
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error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
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error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat './models/vision/classification/inception_and_googlenet/inception_v1/model/inception-
v1-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-8.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
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error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-
v1-8.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-v1-9.onnx**


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
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error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
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error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 140 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v1/model/inception-
v1-9.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-3.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-3.so': No such file or directory
```

• ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-6.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h Assertion impl && isa<> used on a null type.
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:292: bool mlir::Type::isa() const [with U = mlir::RankedTensorType]: Assertion `impl && "isa<> used on a null type."' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-6.so': No such file or directory
```

• ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-8.onnx**

```
- Group:    mlir Failure
- Source:   Types.h
- Category: Types.h 'isa<U>' assertion failure
- Reason:   onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-8.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-9.onnx**

```
- Group:    mlir Failure
- Source:   Types.h
- Category: Types.h 'isa<U>' assertion failure
- Reason:   onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/inception_and_googlenet/inception_v2/model/inception-v2-9.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/mnist/model/mnist-1.onnx**

```
- Group:    Expected Error
- Source:   Shape inference failed
- Category: Operations couldn't be inferred
- Reason:   error: Shape inference failed, 15 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: Shape tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
```



```
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Shape tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 15 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/mnist/model/mnist-1.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/mobilenet/model/mobilenetv2-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Shape inference failed, 2 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/mobilenet/model/mobilenetv2-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-3.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 18 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 18 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/rcnn_ilstvc13/model/rcnn-ilstvc13-3.so': No such file or directory
```

• ONNX File: ./models/vision/classification/rcnn_ilstvc13/model/rcnn-ilstvc13-6.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
```

```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 19 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-6.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-7.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
```

```
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 19 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-7.so': No such file
or directory
```

- **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-8.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 19 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-8.so': No such file
or directory
```

- **ONNX File: ./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-9.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 19 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/rcnn_ilsvrc13/model/rcnn-ilsvrc13-9.so': No such file or directory
```

● ONNX File: ./models/vision/classification/resnet/model/resnet101-v1-7.onnx

- Group: mlir Failure
- Source: Types.h
- Category: Types.h 'isa<U>' assertion failure
- Reason: onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet101-v1-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/resnet/model/resnet101-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet101-v2-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/resnet/model/resnet152-v1-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet152-v1-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/resnet/model/resnet152-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet152-v2-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet18-v1-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet18-v1-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet18-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet18-v2-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet34-v1-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet34-v1-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet34-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 2 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet34-v2-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet50-caffe2-v1-3.onnx

```
- Group:      mlir Failure
- Source:     AffineOps.cpp
- Category:   Assertion map.getNumInputs() == mapOperands.size() && inconsistent index info failed.
- Reason:     onnx-mlir: /build/llvm-project/mlir/lib/Dialect/Affine/IR/AffineOps.cpp:2048: static void mlir::AffineLoadOp::build(mlir::OpBuilder&, mlir::OperationState&, mlir::Value, mlir::AffineMap, mlir::ValueRange): Assertion `map.getNumInputs() == mapOperands.size() && "inconsistent index info"' failed.
- Return Code:1
- Error output:
```



```
onnx-mlir: /build/llvm-project/mlir/lib/Dialect/Affine/IR/AffineOps.cpp:2048: static void
mlir::AffineLoadOp::build(mlir::OpBuilder&, mlir::OperationState&, mlir::Value, mlir::AffineMap,
mlir::ValueRange): Assertion `map.getNumInputs() == mapOperands.size() && "inconsistent index info"' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet50-caffe2-v1-3.so': No such file or
directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet50-v1-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U =
mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U =
mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet50-v1-7.so': No such file or
directory
```

• ONNX File: ./models/vision/classification/resnet/model/resnet50-v2-7.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/resnet/model/resnet50-v2-7.so': No such file or
directory
```

• ONNX File: ./models/vision/classification/shufflenet/model/shufflenet-3.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:    onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::RankedTensorType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/shufflenet/model/shufflenet-3.so': No such file or directory
```

● ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-3.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Shape inference failed, 2 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/squeezenet/model/squeezenet1.0-3.so': No such file or directory
```

● ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-6.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:    error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Shape inference failed, 2 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/squeezenet/model/squeezenet1.0-6.so': No such file or directory
```

● ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-7.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/squeezenet/model/squeezenet1.0-7.so': No such file or directory
```

• ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-8.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/squeezenet/model/squeezenet1.0-8.so': No such file or directory
```

• ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.0-9.onnx

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 2 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Shape inference failed, 2 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/squeezenet/model/squeezenet1.0-9.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/squeezenet/model/squeezenet1.1-7.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Others
- Reason: error: shape inference failed
- Return Code:1
- Error output:
```

```
error: Shape tensor not ranked
error: shape inference failed
mv: cannot stat '/mnt/backup/./models/vision/classification/squeezenet/model/squeezenet1.1-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/vgg/model/vgg16-7.onnx**

```
- Group: mlir Failure
- Source: Types.h
- Category: Types.h 'isa<U>' assertion failure
- Reason: onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/vgg/model/vgg16-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/vgg/model/vgg16-bn-7.onnx**

```
- Group: mlir Failure
- Source: Types.h
- Category: Types.h 'isa<U>' assertion failure
- Reason: onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/vgg/model/vgg16-bn-7.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/vgg/model/vgg19-7.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/vgg/model/vgg19-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/vgg/model/vgg19-bn-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U = mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/classification/vgg/model/vgg19-bn-7.so': No such file or directory
```

● ONNX File: ./models/vision/classification/vgg/model/vgg19-caffe2-3.onnx

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 8 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: Tensor shapes mismatched
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 8 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/vgg/model/vgg19-caffe2-3.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-3.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 19 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 19 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/zfnet-512/model/zfnet512-3.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-6.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 20 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/zfnet-512/model/zfnet512-6.so': No such file or directory
```

• ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-7.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
```

```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 20 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/classification/zfnet-512/model/zfnet512-7.so': No such file or
directory
```

- **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-8.onnx**

```
- Group:    Expected Error
- Source:   Shape inference failed
- Category: Operations couldn't be inferred
- Reason:   error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 20 operations couldn't be inferred
```



```
mv: cannot stat '/mnt/backup/./models/vision/classification/zfnet-512/model/zfnet512-8.so': No such file or directory
```

- **ONNX File: ./models/vision/classification/zfnet-512/model/zfnet512-9.onnx**

```
- Group:      Expected Error
- Source:     Shape inference failed
- Category:   Operations couldn't be inferred
- Reason:     error: Shape inference failed, 20 operations couldn't be inferred
- Return Code:1
- Error output:
```

```
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input data tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Shape inference failed, 20 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/classification/zfnet-512/model/zfnet512-9.so': No such file or directory
```

- **ONNX File: ./models/vision/object_detection_segmentation/faster-rcnn/model/FasterRCNN-10.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Resize' op operand #2 must be tensor of 32-bit float values, but got 'none'
- Reason:     error: 'onnx.Resize' op operand #2 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
- Error output:
```



```
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed, 42 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/retinanet/model/retinanet-9.so': No such file or directory
```

- **ONNX File: ./models/vision/object_detection_segmentation/ssd-mobilenetv1/model/ssd_mobilenet_v1_10.onnx**

```
- Group: Others
- Source: FrontendDialectTransformer.cpp
- Category: UNREACHABLE executed at
- Reason: UNREACHABLE executed at /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:144!
- Return Code:1
- Error output:
```

```
datatype for attribute is not implemented
UNREACHABLE executed at /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:144!
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/ssd-mobilenetv1/model/ssd_mobilenet_v1_10.so': No such file or directory
```

- **ONNX File: ./models/vision/object_detection_segmentation/ssd/model/ssd-10.onnx**

```
- Group:      mlir Failure
- Source:     ConstProp.cpp
- Category:   ConstProp.cpp Assertion rhsFreeRank == 0 && expect both to recurse to zero at the same time failed.
- Reason:     onnx-mlir: /build/onnx-mlir/src/Transform/ONNX/ConstProp.cpp:162: void
{anonymous}::RecurseConstPropElementwiseBinary(mlir::PatternRewriter&, std::vector<mlir::Attribute,
std::allocator<mlir::Attribute> >&, mlir::DenseElementsAttr, mlir::DenseElementsAttr, llvm::SmallVector<long
unsigned int, 4>&, llvm::SmallVector<long unsigned int, 4>&, int, int) [with ElementwiseBinaryOp =
mlir::ONNXMulOp]: Assertion `rhsFreeRank == 0 && "expect both to recurse to zero at the same time"' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/onnx-mlir/src/Transform/ONNX/ConstProp.cpp:162: void
{anonymous}::RecurseConstPropElementwiseBinary(mlir::PatternRewriter&, std::vector<mlir::Attribute,
std::allocator<mlir::Attribute> >&, mlir::DenseElementsAttr, mlir::DenseElementsAttr, llvm::SmallVector<long
unsigned int, 4>&, llvm::SmallVector<long unsigned int, 4>&, int, int) [with ElementwiseBinaryOp =
mlir::ONNXMulOp]: Assertion `rhsFreeRank == 0 && "expect both to recurse to zero at the same time"' failed.
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/ssd/model/ssd-10.so': No such file or
directory
```

• ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-1.onnx

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Conv' op operand #1 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'none'
- Reason:     error: 'onnx.Conv' op operand #1 must be tensor of 16-bit float values or tensor of 32-bit float
values or tensor of 64-bit float values or memref of any type values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Conv' op operand #1 must be tensor of 16-bit float values or tensor of 32-bit float values or tensor
of 64-bit float values or memref of any type values, but got 'none'
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-1.so': No
such file or directory
```

• ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-7.onnx

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U
= mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
error: unexpected output has non-Constant shape
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U =
mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-7.so': No
such file or directory
```

- **ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-8.onnx**

```
- Group:      mlir Failure
- Source:     Types.h
- Category:   Types.h 'isa<U>' assertion failure
- Reason:     onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U =
mlir::MemRefType]: Assertion `isa<U>()' failed.
- Return Code:1
- Error output:
```

```
error: unexpected output has non-Constant shape
onnx-mlir: /build/llvm-project/mlir/include/mlir/IR/Types.h:308: U mlir::Type::cast() const [with U =
mlir::MemRefType]: Assertion `isa<U>()' failed.
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/tiny-yolov2/model/tinyyolov2-8.so': No
such file or directory
```

- **ONNX File: ./models/vision/object_detection_segmentation/tiny-yolov3/model/tiny-yolov3-11.onnx**

```
- Group:      mlir Failure
- Source:     FrontendDialectTransformer.cpp
- Category:   FrontendDialectTransformer.cpp Assertion startsType != nullptr && starts type is not a
RankedTensorType failed.
- Reason:     onnx-mlir: /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:454: void
onnx_mlir::detail::FrontendGenImpl::ImportNodeSlice(const onnx::NodeProto&): Assertion `startsType != nullptr &&
"starts type is not a RankedTensorType"' failed.
- Return Code:1
- Error output:
```

```
onnx-mlir: /build/onnx-mlir/src/Builder/FrontendDialectTransformer.cpp:454: void
onnx_mlir::detail::FrontendGenImpl::ImportNodeSlice(const onnx::NodeProto&): Assertion `startsType != nullptr &&
"starts type is not a RankedTensorType"' failed.
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/tiny-yolov3/model/tiny-yolov3-11.so':
No such file or directory
```

- **ONNX File: ./models/vision/object_detection_segmentation/yolov3/model/yolov3-10.onnx**

```
- Group: Others
- Source: FrontendDialectHelper.cpp
- Category: UNREACHABLE executed at
- Reason: UNREACHABLE executed at /build/onnx-mlir/src/Builder/FrontendDialectHelper.cpp:215!
- Return Code:1
- Error output:
```

```
Failed to import ONNX TensorProto due to unsupported data types.
UNREACHABLE executed at /build/onnx-mlir/src/Builder/FrontendDialectHelper.cpp:215!
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/yolov3/model/yolov3-10.so': No such
file or directory
```

● ONNX File: ./models/vision/object_detection_segmentation/yolov4/model/yolov4.onnx

```
- Group: Others
- Source: CHECK failed
- Category: CHECK failed
- Reason: what(): CHECK failed: (index) < (current_size_):
- Return Code:1
- Error output:
```

```
[libprotobuf FATAL /usr/include/google/protobuf/repeated_field.h:1174] CHECK failed: (index) < (current_size_):
terminate called after throwing an instance of 'google::protobuf::FatalException'
what(): CHECK failed: (index) < (current_size_):
mv: cannot stat '/mnt/backup/./models/vision/object_detection_segmentation/yolov4/model/yolov4.so': No such file
or directory
```

● ONNX File: ./models/vision/style_transfer/fast_neural_style/model/candy-8.onnx

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/candy-8.so': No such file or
directory
```

● ONNX File: ./models/vision/style_transfer/fast_neural_style/model/candy-9.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
```

error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed


```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape inference failed, 99 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/candy-9.so': No such file or
directory
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/mosaic-8.onnx**

```
- Group:      Expected Error
- Source:     op operand must be tensor
- Category:   error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason:     error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/mosaic-8.so': No such file or
directory
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/mosaic-9.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
```

error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed

```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape inference failed, 99 operations couldn't be inferred
```

```
mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/mosaic-9.so': No such file or directory
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/pointilism-8.onnx

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/pointilism-8.so': No such file or directory
```

• ONNX File: ./models/vision/style_transfer/fast_neural_style/model/pointilism-9.onnx

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
```

error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed

```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape inference failed, 99 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/pointilism-9.so': No such file or directory
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/rain-princess-8.onnx**

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/rain-princess-8.so': No such file or directory
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/rain-princess-9.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
```


error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed

```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape inference failed, 99 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/rain-princess-9.so': No such file or directory
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/udnie-8.onnx**

```
- Group: Expected Error
- Source: op operand must be tensor
- Category: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Reason: error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
- Return Code:1
- Error output:
```

```
error: 'onnx.Upsample' op operand #1 must be tensor of 32-bit float values, but got 'none'
mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/udnie-8.so': No such file or directory
```

- **ONNX File: ./models/vision/style_transfer/fast_neural_style/model/udnie-9.onnx**

- Group: Expected Error
- Source: Shape inference failed
- Category: Operations couldn't be inferred
- Reason: error: Shape inference failed, 99 operations couldn't be inferred
- Return Code:1
- Error output:

```
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
```

error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed

```
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Input tensor not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: Input tensor(s) not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: unable to infer shape of operation without shape inference interface
error: Pad: unknown input shape
error: shape inference failed
error: Input tensor not ranked
error: shape inference failed
error: Shape inference failed, 99 operations couldn't be inferred

mv: cannot stat '/mnt/backup/./models/vision/style_transfer/fast_neural_style/model/udnie-9.so': No such file or directory
```

- **ONNX File: ./models/vision/super_resolution/sub_pixel_cnn_2016/model/super-resolution-10.onnx**

```
- Group: Expected Error
- Source: Shape inference failed
- Category: Others
- Reason: error: shape inference failed
- Return Code:1
- Error output:
```

```
error: Shape tensor not ranked
error: shape inference failed
mv: cannot stat '/mnt/backup/./models/vision/super_resolution/sub_pixel_cnn_2016/model/super-resolution-10.so': No such file or directory
```

End of Analysis

Save result to db

```
with open("summary.dbjs","w") as summary_db:  
    json.dump(processed_results,fp=summary_db)  
    summary_db.close()
```