D:/Coding/codeGen\5\generated.yaml

```
$schema: inst_schema.json#
kind: instruction
name: mock
long_name: Mock Instruction (Just for testing UDB)
description: 'The mock instruction computes the value of PI to an infinite number
of decimal places.
Okay, actually it performs the equivalent of the `mul` instruction.
[NOTE]
Computing PI to an infinite number of decicial places is impossible, but hey, why
not?
definedBy: Xmock
assembly: xd, xs1, xs2
encoding:
match: 0000001-----000----0001011
variables:
- name: xs2
location: 24-20
- name: xs1
location: 19-15
- name: xd
location: 11-7
access:
s: always
u: always
vs: always
vu: always
data_independent_timing: true
operation(): "#anchor(\"illegal-inst-exc-misa-disabled\") {\n if (implemented?(ExtensionName::M)\
\ \ = x[xs1];\nXReg src1 = X[xs1];\nXReg src2 = X[xs2];\n\n#anchor(\"\
calculation'") {\n X[xd] = (src1 * src2)[MXLEN-1:0]; \n\#} \n"
sail(): "{\n if extension(\"M\") \mid haveZmmul() then {\n let rs1\_val = X(rs1);\n}}
\ let rs2_val = X(rs2);\n let rs1_int : int = if signed1 then signed(rs1_val)\
\ else unsigned(rs1_val);\n let rs2_int : int = if signed2 then signed(rs2_val)\
\ else unsigned(rs2_val);\n let result_wide = to_bits(2 * sizeof(xlen), rs1_int\
\ RETIRE_FAIL\n \\n\\n"
cert_normative_rules:
```

- id: inst.mock.encoding&basic;_op name: Encoding and basic operation description: Encoding and basic operation for `mock` instruction doc_links: - manual:inst:mul:encoding - udb:doc:inst:mock - id: inst.mock.ill_exc_misa_M_disabled name: Illegal instruction exception when misa. M is 0 $\,$ description: 'An illegal instruction exception is raised when the instruction is executed and 'misa.M' is 0. doc_links: - manual:csr:misa:disabling-extension $cert_test_procedures:$ - id: inst.mock.enc_and_basic description: Verify the encoding and basic operation of the 'mock' instruction $normative_rules:$ - inst.mock.encoding&basic;_op steps: '. Setup .. Load a variety of known values into rs1 & rs2 with a variety of rs1/rs2/rd values. . Execution .. Execute the 'mock' instruction . Validation .. Check each result in rd . Teardown .. Clear the registers used for rd [NOTE] Don"t really need to clear the registers so this is a contrived example. I"ve got this note after the ordered list above.