Subject: ATAN with two arguments works like ATAN2
From: Van Snyder
References: J3-026, 03-258r1, section 2.4.4.2, 04-183, 04-397

1 Number

TBD

2 Title

ATAN with two arguments works like ATAN2.

3 Submitted By

J3

4 Status

For consideration.

5 Basic Functionality

Define an alternative ATAN that works like ATAN2.

6 Rationale

ATAN is generic. It is surprising to students that they need to use ATAN2 just because they have the two-argument formulation.

7 Estimated Impact

Minor: One more description for an existing intrinsic function — and we already have the description. Estimated at meeting 169 to be at 3 on the JKR scale.

8 Detailed Specification

Provide a specification for how ATAN works with two arguments, based on how ATAN2 works.

8.1 Suggested edits

The following suggested edits illustrate the magnitude of the project.

[Editor: Insert "(one argument)" after the "ATAN" in the first column in the table in 13.6.]	298:16+15
[Editor: Insert "**or ATAN (Y, X)**" at the end of the 13.7.14 subclause title.]	305:36

9 History

03-258r1, section 2.4.2	m166
04-183	m167
04-397	m170