# TEST 1

## Macros and Macro Variables are available

Check that required autocall macros are available and the required macro variables exist.

Report that dependency checks FAIL if not all components exist.

## Checks

1. Check that a required autocall macro exists
   1. report PASS (return value 1) if it does
   2. report FAIL (return value 0) if it does not
2. Check that a required macro variable exists
   1. report PASS (return value 1) if it does
   2. report FAIL (return value 0) if it does not
3. Confirm that these tests are NOT case sensitive

# TEST 2

## SAS version number meets requirements

Check that SAS version is at least as current as required.

## Checks

1. Check that SAS version is 6.12 or later (certain today) – report PASS (return value 1)
2. Check that SAS version is 20.5 or later (impossible today) – report FAIL (return value 0)

# TEST 3

## Operating system meets requirements

Check that current operating system is in the supported list.

NB: The OS check simply reports unsupported OS in the log as a WARNING, but since OS differences are subtle it nonetheless returns a value of 1 (PASS)

## Checks

1. Check that current env is exactly WIN or exactly UNIX – only one operating system supported
2. Check that current env is either WIN or UNIX – either OS supported
3. Check that current env is JUNK – report OS mis-match, but still report PASS (return value 1)
4. Confirm that these tests are NOT case sensitive

# TEST 4

## Combination of Test 1 – 3 conditions

Check that a mix of checks 1 through 3 behave as expected

## Checks

1. Confirm FAIL for mix of tests where only an AUTOCALL MACRO is missing
2. Confirm FAIL for mix of tests where only SAS VERSION is obsolete
3. Confirm PASS with log WARNING for mix of tests where only OS is not supported
4. Confirm PASS for mix of tests that all meet requirements: autocall macros, macro variables, SAS version and OS
5. Confirm that these tests are NOT case sensitive

# TEST 5

## Confirm expected log messages

In most cases tests will include failure scenarios, which should produce log messages. The following log messages are EXPECTED due to test design (testing failure conditions):

WARNING: (TEST\_ASSERT\_DEPEND) User must ensure PhUSE/CSS utilities are in the AUTOCALL path.

ERROR: (ASSERT\_MACRO\_EXIST) FAIL, unable to find macro QTRIM\_DNE.

ERROR: (ASSERT\_DEPEND) Macro QTRIM\_DNE is required but not in the AUTOCALL path(s).

ERROR: (ASSERT\_DEPEND) Result is FAIL. Dependencies for this program not met. Expect problems.

ERROR: (ASSERT\_DEPEND) Symbol (macro var) MV\_DOESNOTEXIST is required but not found.

ERROR: (ASSERT\_DEPEND) Result is FAIL. Dependencies for this program not met. Expect problems.

ERROR: (ASSERT\_DEPEND) Program can only run with SAS version based on &SYSVER GE 20.5.

ERROR: (ASSERT\_DEPEND) Result is FAIL. Dependencies for this program not met. Expect problems.

WARNING: (ASSERT\_DEPEND) Program requires OS like (AIX,HP,LIN,LINUX,SUN), but this &SYSSCP is WIN. Let us see what happens.

WARNING: (ASSERT\_DEPEND) Program requires OS like (DNE,JUNK), but this &SYSSCP is WIN. Let us see what happens.

ERROR: (ASSERT\_MACRO\_EXIST) FAIL, unable to find macro DNE\_DELETE\_DSETS.

ERROR: (ASSERT\_DEPEND) Macro DNE\_DELETE\_DSETS is required but not in the AUTOCALL path(s).

ERROR: (ASSERT\_DEPEND) Result is FAIL. Dependencies for this program not met. Expect problems.

ERROR: (ASSERT\_DEPEND) Program can only run with SAS version based on &SYSVER GE 29.4.

ERROR: (ASSERT\_DEPEND) Result is FAIL. Dependencies for this program not met. Expect problems.

WARNING: (ASSERT\_DEPEND) Program requires OS like (Dne,Junk), but this &SYSSCP is WIN. Let us see what happens.