Appendix B

ADAS FORTRAN and IDL subroutine libraries

For subroutine naming, codes series 1-7 are labelled alphabetically a-g. A subroutine associated with series 1 begins with the letter ‘a’, a subroutine associated with series 2 begins with letter ‘b’ and so on. A subroutine associated with a particular member of a code series has the code number as the second character of the subroutine name. Thus the name of a subroutine associated with the code ADAS403 begins with the letters ‘d3’ (e.g. ‘d3spf0’). The name of a general subroutine from a code series but not restricted to a specific code has ‘x’ as the second character of its name (e.g. ‘bxdata’). A general subroutine, not restricted to a single code series begins with the letters ‘xx’ (e.g. ‘xxuid’). General functions are preceded by ‘I4’, ‘R8’, ‘C’ depending on the type of function value returned.

FORTRAN subroutine names have the terminator ‘.for’, IDL subroutines have the terminator ‘.pro’. FORTRAN subroutine source code is not accessible, but the headers, including call parameters, description of the routine and all variables and declaration statements are available in the separate document ‘Usernotes’. IDL code is accessible. It is to be noted that IDL procedures are often grouped to provide complete self-managing widgets.

The FORTRAN scannable libraries are located as follow:

/…/adas/idl_adas/fortran/libadaslib.a	‘XX’,’I4’, ‘R8’ and ‘C’ general fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas1xx.a	‘AX’, ‘A1’, ‘A2’, … fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas2xx.a	‘BX’, ‘B1’, ‘B2’, … fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas3xx.a	‘CX’, ‘C1’, ‘C2’, … fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas4xx.a	‘DX’, ‘D1’, ‘D2’, … fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas5xx.a	‘EX’, ‘E1’, ‘E2’, … fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas6xx.a	‘FX’, ‘F1’, ‘F2’, … fortran subroutines and functions
/…/adas/idl_adas/fortran/libadas7xx.a	‘GX’, ‘G1’, ‘G2’, … fortran subroutines and functions

The IDL scannable libraries are located as follow:

/…/adas/idl_adas/idl/adaslib.a	‘xx’,’i4’, ‘r8’ and ‘c’ general idl procedures
/…/adas/idl_adas/idl/adas1xx.a	‘ax’, ‘a1’, ‘a2’, … idl procedures
/…/adas/idl_adas/idl/adas2xx.a	‘bx’, ‘b1’, ‘b2’, … idl procedures
/…/adas/idl_adas/idl/adas3xx.a	‘cx’, ‘c1’, ‘c2’, … idl procedures
/…/adas/idl_adas/idl/adas4xx.a	‘dx’, ‘d1’, ‘d2’, … idl procedures
/…/adas/idl_adas/idl/adas5xx.a	‘ex’, ‘e1’, ‘e2’, … idl procedures
/…/adas/idl_adas/idl/adas6xx.a	‘fx’, ‘f1’, ‘f2’, … idl procedures
/…/adas/idl_adas/idl/adas7xx.a	‘gx’, ‘g1’, ‘g2’, … idl procedures

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The available subroutines are summarised below. Page references are to the ADAS Usernotes manual.