```
18-Oct-93 17:16:29 {Pele:mv:envos}<LispCore>Sources>CLTL2>XCLC-DATABASE.;2
  File created:
previous date:
                      3-Sep-91 18:26:14 {Pele:mv:envos}<LispCore>Sources>CLTL2>XCLC-DATABASE.;1
  Read Table:
     Package:
                    COMPILER
         Format:
                     XCCS
; Copyright (c) 1986, 1987, 1988, 1990, 1991, 1993 by Venue & Xerox Corporation. All rights reserved.
(IL:RPAQQ IL:XCLC-DATABASECOMS
;;; The XCL Compiler's database of information about the properties of functions and other constructs.
                 (IL:DEFINE-TYPES COMPILER-DATA)
                ;; Side Effects (The first keyword is the effects of the function itself and the second is those effects that can affect the running of the
                 :: function.)
                 (IL:FUNCTIONS DECLARE-SIDE-EFFECTS SIDE-EFFECTS)
                 (IL:SETFS SIDE-EFFECTS)
                 (IL:PROP IL:PROPTYPE SIDE-EFFECTS-DATA)
                 (COMPILER-DATA ("Side-effects data for CLtL, Chapter 4: Type Specifiers" (:CONS)
                                                  :NONE)
                            ("Side-effects data for CLtL, Chapter 4: Type Specifiers": NONE: NONE)
("Side-effects data for CLtL, Chapter 6: Predicates": NONE: NONE)
                            ("Side-effects data for CLtL, Chapter 7: Control Structure"
                                     :ANY)
                            ("Side-effects data for CLtL, Chapter 7: Control Structure" :ANY :NONE) ("Side-effects data for CLtL, Chapter 7: Control Structure" :NONE :ANY)
                            ("Side-effects data for CLtL, Chapter 7: Control Structure": ANY: ANY)

("Side-effects data for CLtL, Chapter 8: Macros": ANY: ANY)

("Side-effects data for CLtL, Chapter 8: Macros": NONE: ANY)

("Side-effects data for CLtL, Chapter 9: Declarations": ANY: ANY)

("Side-effects data for CLtL, Chapter 9: Declarations": ANY: ANY)
                            ("Side-effects data for CLtL, Chapter 10: Symbols": NONE: ANY)
("Side-effects data for CLtL, Chapter 10: Symbols": ANY: ANY)
                            ("Side-effects data for CLtL, Chapter 10: Symbols" (:CONS CL::*GENSYM-PREFIX*
                                                                                                                    CL::*GENSYM-COUNTER*)
                                      (CL::*GENSYM-PREFIX* CL::*GENSYM-COUNTER*))
                            ("Side-effects data for CLtL, Chapter 10: Symbols" (:CONS)
                                      : NONE)
                            ("Side-effects data for CLtL, Chapter 10: Symbols" (:CONS)
                                      :ANY)
                            ("Side-effects data for CLtL, Chapter 10: Symbols": NONE: NONE) ("Side-effects data for CLtL, Chapter 11: Packages": NONE: ANY)
                            ("Side-effects data for CLtL, Chapter 11: Packages" : ANY : ANY)
                            ("Side-effects data for CLtL, Chapter 12: Numbers" (:CONS)
                                      :NONE)
                            ("Side-effects data for CLtL, Chapter 12: Numbers" :ANY :ANY) ("Side-effects data for CLtL, Chapter 12: Numbers" :NONE :NONE)
                            ("Side-effects data for CLtL, Chapter 13: Characters" : NONE : NONE)
                            ("Side-effects data for CLtL, Chapter 14: Sequences" :ANY :ANY) ("Side-effects data for CLtL, Chapter 14: Sequences" :NONE :ANY)
                            ("Side-effects data for CLtL, Chapter 14: Sequences" (:CONS)
                            ("Side-effects data for CLtL, Chapter 15: Lists" :NONE :NONE) ("Side-effects data for CLtL, Chapter 15: Lists" (:CONS)
                                      : NONE)
                            ("Side-effects data for CLtL, Chapter 15: Lists" :ANY :ANY)
                            ("Side-effects data for CLtL, Chapter 15: Lists" : ANY : NONE)
                            ("Side-effects data for CLtL, Chapter 16: Hash Tables" :ANY :NONE)
                            ("Side-effects data for CLtL, Chapter 16: Hash Tables" :ANY :ANY)
("Side-effects data for CLtL, Chapter 16: Hash Tables" :NONE :ANY)
                            ("Side-effects data for CLtL, Chapter 16: Hash Tables" :NONE :NONE) ("Side-effects data for CLtL, Chapter 16: Hash Tables" (:CONS)
                                      :NONE)
                            ("Side-effects data for CLtL, Chapter 17: Arrays" :NONE :NONE)
("Side-effects data for CLtL, Chapter 17: Arrays" :NONE :ANY)
("Side-effects data for CLtL, Chapter 17: Arrays" (:CONS)
                                      : NONE)
                            ("Side-effects data for CLtL, Chapter 17: Arrays": ANY: ANY) ("Side-effects data for CLtL, Chapter 18: Strings": ANY: ANY) ("Side-effects data for CLtL, Chapter 18: Strings" (:CONS)
                                      : NONE)
                            ("Side-effects data for CLtL, Chapter 18: Strings" (:CONS)
                                      :ANY)
                            ("Side-effects data for CLtL, Chapter 18: Strings": NONE: NONE) ("Side-effects data for CLtL, Chapter 18: Strings": NONE: ANY)
                            ("Side-effects data for CLtL, Chapter 20: The Evaluator" :NONE :ANY) ("Side-effects data for CLtL, Chapter 20: The Evaluator" :ANY :ANY)
                            ("Side-effects data for CLtL, Chapter 21: Streams" (:CONS)
                                      :ANY)
                            ("Side-effects data for CLtL, Chapter 21: Streams" (:CONS)
                            ("Side-effects data for CLtL, Chapter 21: Streams" :ANY :NONE) ("Side-effects data for CLtL, Chapter 21: Streams" :NONE :NONE)
```

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("Side-effects data for CLtL, Chapter 21: Streams" :ANY :ANY)
("Side-effects data for CLtL, Chapter 22: Input/Output" :NONE :NONE)
                ("Side-effects data for CLtL, Chapter 22: Input/Output" :ANY :ANY)
               ("Side-effects data for CLtL, Chapter 22: Input/Output" :NONE :ANY) ("Side-effects data for CLtL, Chapter 22: Input/Output" (:CONS)
                             :ANY)
               ("Side-effects data for CLtL, Chapter 23: File System Interface" :NONE :ANY) ("Side-effects data for CLtL, Chapter 23: File System Interface" (:CONS)
               ("Side-effects data for CLtL, Chapter 23: File System Interface" :ANY :ANY) ("Side-effects data for CLtL, Chapter 23: File System Interface" :NONE :NONE) ("Side-effects data for CLtL, Chapter 24: Errors" :ANY :ANY)
               ("Side-effects data for CLtL, Chapter 25: Miscellaneous Features" :NONE :ANY) ("Side-effects data for CLtL, Chapter 25: Miscellaneous Features" :ANY :ANY) ("Side-effects data for CLtL, Chapter 25: Miscellaneous Features" :ANY :NONE)
               ("Side-effects data for CLtL, Chapter 25: Miscellaneous Features" : NONE : NONE)
("Side-effects data for IRM, Chapter 2: Litatoms" : ANY : NONE)
("Side-effects data for IRM, Chapter 2: Litatoms" : NONE : ANY)
               ("Side-effects data for IRM, Chapter 2: Litatoms" :NONE :NONE)
("Side-effects data for IRM, Chapter 2: Litatoms" :ANY :ANY)
("Side-effects data for IRM, Chapter 2: Litatoms" :(:CONS)
                             :ANY)
               ("Side-effects data for IRM, Chapter 3: Lists" :NONE :NONE ("Side-effects data for IRM, Chapter 3: Lists" :ANY :ANY) ("Side-effects data for IRM, Chapter 3: Lists" :ANY :NONE)
                ("Side-effects data for IRM, Chapter 3: Lists" (:CONS)
                             : NONE)
               ("Side-effects data for IRM, Chapter 3: Lists" (:CONS)
                             :ANY)
                ("Side-effects data for IRM, Chapter 3: Lists" :NONE :ANY)
               ("Side-effects data for IRM, Chapter 4: Strings" (:CONS)
                             :ANY)
               ("Side-effects data for IRM, Chapter 4: Strings" :NONE :ANY) ("Side-effects data for IRM, Chapter 4: Strings" :NONE :NONE)
                ("Side-effects data for IRM, Chapter 4: Strings" : ANY : ANY)
                ("Side-effects data for IRM, Chapter 5: Arrays" :ANY :NONE)
               ("Side-effects data for IRM, Chapter 5: Arrays" :NONE :ANY) ("Side-effects data for IRM, Chapter 5: Arrays" :NONE :NONE)
                ("Side-effects data for IRM, Chapter 5: Arrays" (:CONS)
                            :ANY)
               ("Side-effects data for IRM, Chapter 6: Hash Arrays" :ANY :ANY) ("Side-effects data for IRM, Chapter 6: Hash Arrays" :NONE :NONE)
               ("Side-effects data for IRM, Chapter 6: Hash Arrays" (:CONS)
                             :NONE)
               ("Side-effects data for IRM, Chapter 6: Hash Arrays" (:CONS)
                             :ANY)
               ("Side-effects data for IRM, Chapter 6: Hash Arrays" :NONE :ANY) ("Side-effects data for IRM, Chapter 6: Hash Arrays" :ANY :NONE)
               ("Side-effects data for IRM, Chapter 7: Numbers and Arithmetic Functions" :ANY :ANY) ("Side-effects data for IRM, Chapter 7: Numbers and Arithmetic Functions" :NONE :NONE)
                ("Side-effects data for IRM, Chapter 7: Numbers and Arithmetic Functions" : ANY : NONE)
                ("Side-effects data for IRM, Chapter 8: Record Package": NONE: ANY)
("Side-effects data for IRM, Chapter 8: Record Package": ANY: ANY: ANY)
                ("Side-effects data for IRM, Chapter 9: Conditionals and Iterative Statements": NONE: NONE)
               ("Side-effects data for IRM, Chapter 9: Conditionals and Iterative Statements": NONE: ANY) ("Side-effects data for IRM, Chapter 9: Conditionals and Iterative Statements": ANY: ANY)
                ("Side-effects data for IRM, Chapter 10: Function Definition, Manipulation, and Evaluation"
                 :ANY :NONE)
               ("Side-effects data for IRM, Chapter 10: Function Definition, Manipulation, and Evaluation"
                 :NONE :ANY)
               ("Side-effects data for IRM, Chapter 10: Function Definition, Manipulation, and Evaluation"
                 :ANY :ANY)
               ("Side-effects data for IRM, Chapter 10: Function Definition, Manipulation, and Evaluation"
                 :NONE :NONE)
                ("Side-effects data for IRM, Chapter 11: Variable Bindings and the Interlisp Stack": NONE: ANY
               ("Side-effects data for IRM, Chapter 11: Variable Bindings and the Interlisp Stack" :ANY :NONE
                ("Side-effects data for IRM, Chapter 11: Variable Bindings and the Interlisp Stack" :ANY)
               ("Side-effects data for IRM, Chapter 11: Variable Bindings and the Interlisp Stack" : NONE
                             :NONE)
               ("Side-effects data for IRM, Chapter 12: Miscellaneous" :NONE :NON
                ("Side-effects data for IRM, Chapter 12: Miscellaneous" :NONE :ANY)
                ("Side-effects data for Pointer reads" : NONE : NONE)
                ("Side-effects data for Internal functions in CMLARITH" : NONE : NONE))
;; Arrange for the correct compiler to be used.
(IL:PROP IL:FILETYPE IL:XCLC-DATABASE)
;; Set up the correct package environment.
(IL:PROP IL:MAKEFILE-ENVIRONMENT IL:XCLC-DATABASE)))
```

(IL:PUTPROPS SIDE-EFFECTS-DATA IL:PROPTYPE IGNORE)

(DEF-DEFINE-TYPE **COMPILER-DATA** "XCL Compiler information") ;; Side Effects (The first keyword is the effects of the function itself and the second is those effects that can affect the running of the function.) (DEFLERE (DECLARE-SIDE-EFFECTS (:NAME (LAMBDA (WHOLE) (LIST (FORMAT NIL "Side-effects data for ~A" (SECOND WHOLE)) (THIRD WHOLE) (FOURTH WHOLE))))) COMPILER-DATA (TITLE EFFECTS AFFECTED &REST FUNCTIONS) (COND ((AND (OR (EQ EFFECTS : NONE) (EQ EFFECTS :ANY) (LISTP EFFECTS)) (OR (EQ AFFECTED : NONE) (EQ AFFECTED : ANY) (LISTP AFFECTED)))
'(LET ((DATA ', (CONS EFFECTS AFFECTED))) ,@(MAPCAR #'(LAMBDA (F) (SETF (SIDE-EFFECTS ',F) DATA)) FUNCTIONS))) (T (CERROR "Ignore the declaration" "Malformed side-effects descriptor in DECLARE-SIDE-EFFECTS: ~S" (CONS EFFECTS AFFECTED)) (DEFUN SIDE-EFFECTS (NAME) (GET NAME 'SIDE-EFFECTS-DATA)) (DEFSETF SIDE-EFFECTS (NAME) (DATA) '(IL:PUTPROP ,NAME 'SIDE-EFFECTS-DATA ,DATA))