```
14-Apr-88 12:37:05 {ERINYES}<LISPUSERS>LYRIC>UTILISOPRS.;1
 File created:
  changes to:
               (FNS |FIntersection | FUnion |)
previous date:
              24-Mar-87 19:54:30 {XDE:MCS:STANFORD}<LISPUSERS>LYRIC>UTILISOPRS.;1
 Read Table:
              XCL
   Package:
              INTERLISP
      Format:
                XCCS
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(RPAQO UTILISOPRSCOMS
       ((I.S.OPRS COLLECTWHEN INTERSECT MAXIMIZE MINIMIZE REPEATEACHTIME UNION UNIQUE YIELD FIRSTTIME
        |fintersect| |funion|)
(ADDVARS (LOCALVARS $$STATE $$TMP $$UIV $$UNQ $$FLTR)
        (SYSLOCALVARS $$STATE $$TMP $$UIV $$UNQ $$FLTR))
(FNS |FIntersection| |FUnion|)))
(DECLARE\: EVAL@COMPILE
(I.S.OPR 'COLLECTWHEN NIL '(|bind| $$FLTR |when| (SETQ $$FLTR BODY) |collect| $$FLTR))
(I.S.OPR 'INTERSECT ' (PROGN (INTBOD _
                                       BODY)
                              (OR ($$VAL _ (COND
                                               ($$VAL (INTERSECTION $$VAL INTBOD))
                                               (T INTBOD)))
                                  (GO $$OUT)))
       '(BIND INTBOD))
(I.S.OPR 'MAXIMIZE NIL '(|largest| BODY |yield| $$EXTREME))
(I.S.OPR 'MINIMIZE NIL ' (|smallest| BODY | yield | $$EXTREME))
(I.S.OPR 'REPEATEACHTIME NIL '(|repeatuntil| (PROGN BODY NIL)))
(I.S.OPR 'UNION '($$VAL _ (UNION $$VAL BODY)))
(I.S.OPR 'UNIQUE '(|if| $$VAL
                       |then| ($$VAL_
                                     NIL)
                     (GO $$OUT)
|else| $$VAL _ $$UNQ $$UIV _ I.V.)
       '(|bind| ($$UNQ $$UIV) |when| $$UNQ _ BODY |finally| (I.V._ (AND $$VAL $$UIV))))
(I.S.OPR 'YIELD NIL '(FINALLY (RETURN BODY)))
(I.S.OPR 'FIRSTTIME NIL '(|bind| ($$MEMO _ T) |unless| (AND $$MEMO (PROGN BODY T)
                                                             (SETQ $$MEMO NIL))))
(I.S.OPR ' | fintersect | ' (PROGN (INTBOD
                                           BODY)
                                 (OR ($$VAL _ (COND
                                                  ($$VAL (|FIntersection| $$VAL INTBOD))
                                                  (T INTBOD)))
                                      (GO $$OUT)))
       '(BIND INTBOD))
(I.S.OPR ' | funion | '($$VAL _ (|FUnion| $$VAL BODY)))
(ADDTOVAR LOCALVARS $$STATE $$TMP $$UIV $$UNQ $$FLTR)
(ADDTOVAR SYSLOCALVARS $$STATE $$TMP $$UIV $$UNQ $$FLTR)
(DEFINEO
(|FIntersection|
                                                                     (* TAL "27-OCT-82 17:54")
  (|FUnion|
  (LAMBDA (X Y)
(|bind| (|tmp|
                                                                      TAL "28-OCT-82 12:00")
                    Y) || for| || item | | in| X || unless | (FMEMB | item | | tmp | ) || do | (|push | | tmp | '|item | )
       (PUTPROPS UTILISOPRS COPYRIGHT ("Xerox Corporation" 1988))
```

{MEDLEY}<lispusers>UTILISOPRS.;1 28-Jun-2024 18:34:03 -- Listed on 30-Jun-2024 13:15:06 --

FIntersection .			ON INDEX		1
I.S.OPR INDEX					
	FIRSTTIME1 funion 1				YIELD1
SYSLOCALVARS1		VARIABI	LE INDEX		