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TCA4.LSP: W. L. Johnson 10779 Revision of Larry Birnbaum's CA4.MLL 8779
* Munctions which are used in the actions of requests
Tithis is used in the actions of requests to spawn new requests.
"Request pool is tred to the con atom
(DE ACTIVATE (REQS)
 (LEF (RED (MAKE-REQUESTS REVS))
   (CDND LINEX-CDA
                               Toneck if 1924-CON has been set
         (PUTPROP INEM-COM REQ 'ASSOC-REQS)))
   (AZJIVATE-POJO REQI
"Matended for use mainly in the actions of special reguests (those which
test for some particular word), to alter the sense of some other word;
(DE ADD-TO-WIRD-SEASE (REQS)
 (SEP) :EXTRA-REQUESTS (APPEND :EXTRA-REQUESTS (44KE-REQUESTS REQS)
*Replaces the definition of the next word with REDS
(DEFIGHANGE-NEXT-NURD-SENSE (REQS)
   (SKIP-NEXT-WORD)
   (SETQ :EXTRA-REQUESTS (APPERO :EXTRA-REQUESTS (MAKE-REQUESTS REQS)
Tunis is the only way to get a request into the :SPECHAL-POUL;
(OF ACTIVATE-LEXICAL-REDS (REQS)
 JUCG-JACIXED: 8 GURGIUG)
          (APPEND (MAKE-REQUESTS REQS) (GET 0:LEXICAL-POOL 0REQUESTS))
          BREJJESTŠI
Two addition to killing specifically named requests, it can take as special
Targuments the atoms SELE and REST-UF-PODL.
*REQUEST is a variable local to COMSIDER but free here; its value is the name
Tof the the request who's actions are presently being evaluated.
^{2}POUL is a variable local to COUSTOER-POOL but tree here; its value is the
iname of the request pool currently being considered.
(DE KIUL (REUS)
  (MAPC (FUNG (R)
         (CONO. L(EQ R @SEGE) (PUTPROP REQUEST NIS @ACTIVE)]
               (JUU9-10-183% R 93)1
                (X) ACEMAL) CAAMI
                        (PUTPRUP X MIL @ACTIVE))
                      (GÉT POUL @REQUESTS));
               IT (PUTPROP R NIL ANCTIVE) 1))
       REUST
TADD-DUNAY is used to build an atomized dummy structure and place it on the
*«CAUISI. The structure can then be used as an argument to PRECEDES and
"สับัยมัมหรี, and also ควบ-วิปต์;
(Inanged MB 11/8/79)
LVES) YMMUG-GCA BCJ
  (LEA CON (BOLLO-CO A(NIL) NIL NIL))
       (SET) : C.-61ST (CDNS CON : C-61ST))
       1462
"Kibb-DUMMY delates a dummy which was previously created for marking
"our poses
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(DE KILL-DUMMY (DUMMY)
(SEP): C-61ST (REMOVE DUMMY :C-61ST)
ADD-CUN is used to outld an atomized Co structure and place it on the
:CFLIST; it takes four (optional) arguments:
The first must evaluate to a legal CO conceptualization,
namely the one which is to be atomized and placed on the :C-LIST:
The Second must evaluate to a list of pairs of the form (PAPH Co);
 the CD will be atomized and placed at the end of the path in
 the Structure built by the first argument.
The third argument must evaluate to a list of pairs of the form (PAPH1 PAPH2);
 the CO at the end of PATHI replaces the CO at the end of PATH2 in the
structure built by the first argument.
it there is no fourth argument, then the new CO is placed on the end (#front)
of the :C-UIST. If there is a fourth argument, then it must evaluate to a
during marker on the :C-biSr, which lets its value set to the value of the
new CD. The value returned is the name of the atom on the :C-61Sr.
Note: (change by Md 11/8/79)
:Chuist is usu. searched in "most recent first" order, so the conceptual:
"and" of the :C-bish is actually the front of the list for efficiency.
(DEX ADD-CON (A)
  (GET (CUN Vital)
        CONCEPT (EVAL (CAR X))
        FILLERS (EVAL (CADR X))
        EQUIVALENCES (EVAL (CAUDR X))
        DUMMY (EVAL (CADOOR X)))
        (SEFQ INEW-CON (BUILD-CD CONCEPT FILHERS EQUIVALENCES))
        CCUND (DUMMY (SÉL DUMMY) (EVAN LHEN-COND) DUMMYI
              ÉP (SEPÓ :C-DEST (CONS !NEW-CON :C-DEST))
                 1.20円以一貫は戻しま
"Fills-GAP puts Filler at the end of PATH in Co.
"Tolince this is asually called
Trainen Flaber has been tound on the :C-bish, one of the functions of Flab-GAP
Thus to remove Fullier trom the :C-WIST, unless the item is important to memory.
Tiltens are no longer removed from the :C-ulSP, just marked EMBEDDED (MB 11/9)
(DEL FILLE-GAP (PATH CO FILLER)
        (SET-GAP PATH CD FIREER) " adds path if heeded
" Save the subject or focus of the clause on the act built.
        (COND LIAND ICUNCEPT CO) [PRECEDES FIGHER CD])
               (PUT CO (REALCOM FIGHER) @CONTOPICD])
        (SETO :GAST-EMBEDDED-COO FILLER)
٠,
   Assume memory wants to know about everything. (see change above)
        CEUND
        TOUR (FEATHRE FILLER "CONCRET)
                                         Themory wants to know about concepts
                                         "and PP's
              (FEATURE FALLBER 'PP)
                                        "and possibly time
              (FEATURE FILLER "TIME))
          (PMSG 'FILL-GAP I "Embedding " FILLER " in " CD)
          (PUTPROP (REALCHM FILLER) OF 'EMBEDDED)
          (PUTPRIE TIMER TO 'EMBEUDED)!
         IT (SEND : C-DIST (REMOVE FIRMER : C-DISTI)
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* shouldn't heed this

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TCDPY-GAP embeds a copy of the filler in the slot
COEFCUPY-GAP (PATH CO FILHER)
  CONTROL DAVIERULA) POS-COA) ACONINA MENT
   (PUTPRUP NEWSAM FILLER TREADCOM)
   EFAGL-GAP PART OD NEWCOMI
"SET-GAP puts Fillier at the end of PATH in CD & updates corresponding.
" manory token (it any)
COE SET-GAP (PATH CO FILLER)
          (SEF-ROLE-FILLER PAIR OD FILLER)
          (FIBE-MEM-GAPS PATH CD FIBER)) " fill corresponding gaps in
                                                  The memory tokens (&goals, plans)

→ (this fo in PREDS.LSP)

TMERGE-CONS takes two conceptualizations on the Chlist and creates a new
"condeptualization consisting of the union of the semantic content of the
"concéptualizations
(DE: MÉRGE-COMS (COM1 COM2)
    tPMSG "MERGE-CONS & "Merging " CON2 " into " CDN1)
    (SET CONT (APPEND (ATOM-EVAL CONT) (COR (ATOM-EVAL CONZ))))
    (GET TREAGODN (REAGODN CONT))
      (COND TREADCON (SET READCON (ATOM-EVAL CON11))
    (SETQ : CHANGED-CONS (REMOVE COM2 : CHANGED-CONS))
    (SETQ :C-BIST (REMOVE CONZ :C-BIST)
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