cons (cons_car , cons_cr)

gclookup(ADDREF, cons_car);
gclookup(ADDREF, cons_cdr);

Ref. cnt

CDRing NIL

((ListpDTD->dtd_nextpage != 0)
&&
(GetCONSCount(ListpDTD->dtd_nextpage) > 0))

ListpDTD CONSPAGE
1 Free

CONSPAGE

new_page = ListpDTD->dtd_nextpage;
new_conspage =
(struct conspage *)Addr68k_from_LPAGE(new_page);
new_cell = GetNewCell_68k(new_conspage);
new_conspage->count --;
new_conspage->next_cell = new_cell->cdr_code ;

new_cell->car_field = cons_car ;
new_cell->cdr_code = CDR_NIL ;

ListpDTD->dtd_cnt0++

CONSPAGE

new_conspage=next_conspage()

CONSPAGE

new_cell = GetNewCell_68k(new_conspage) ;
new_conspage->count --;
new_conspage->next_cell = new_cell->cdr_code ;

new_cell->car_field = cons_car ;
new_cell->cdr_code = CDR_NIL ;

ListpDTD->dtd_oldcnt++;

(cons_cdr
== NIL_PTR)

CDR CONSPAGE

new_page
= POINTER_PAGE(cons_cdr);

On Page

CDR CONSPAGE

new_conspage=
(struct conspage *)Addr68k_from_LPAGE(new_page);
new_cell = GetNewCell_68k(new_conspage) ;
new_conspage->count --;
new_conspage->next_cell = new_cell->cdr_code ;

(listp(cons_cdr)
&&
(GetCONSCount(new_page) > 0))

CDR
1 Free

new_cell->car_field = cons_car ;
new_cell->cdr_code = CDR_ONPAGE | (LOLOC(cons_cdr)>>1);

ListpDTD->dtd_cnt0++

CONSPAGE

new_conspage=next_conspage()

CONSPAGE 2

Diff. Page

temp_cell = GetNewCell_68k(new_conspage) ;
new_conspage->next_cell = temp_cell->cdr_code ;
new_cell = GetNewCell_68k(new_conspage) ;
new_conspage->next_cell = new_cell->cdr_code ;
new_conspage->count -= 2;

CDR

temp_cell->car_field = cons_cdr ;
temp_cell->cdr_code = 0 ;

CAR

new_cell->car_field = cons_car ;
new_cell->cdr_code
= (LOLOC(LADDR_from_68k(temp_cell)) >> 1) ;

ListpDTD->dtd_oldcnt++;

ret_Laddr = LADDR_from_68k(new_cell)

gclookup (DELREF , ret_Laddr)

return (ret_Laddr)