Interlisp-D fixed allocations: conversion to Intermezzo

(all numbers in octal)

| Name Old S | ize (pages) | Old Addr | New Size | New Addr | Old Real | New Real |
|--------------------------|-------------|------------|----------------|-----------|----------|----------|
| On page 26: | | | | | | |
| Interface Page | 1 | 26,10000 | 1 | 6,0 | 3 | 3 |
| Primary Page Map | 2 | 26,0 | 10 | 6,1000 | 2153 | 3313 |
| StatsSpace (unused) | 2 | 26,120000 | omit | | | |
| Interrupt Table (unused) | ? | 26,121200 | omit | | | |
| MiscStats | 2 (1 used) | 26,122000 | 2 | 6,5000 | | |
| UFN Table | 2 | 26,123000 | 2 | 6,6000 | | |
| DTD **** | 20 | 26,124000 | 20 (140) | 6,10000 | | |
| MDS Type Table | 40 | 26,100000 | 1/2 seg | 6,100000 | 1600 | 2400 |
| FPTOVP | 1/4 seg | 26,40000 | 1 seg | 4,0 | 501 | 2000 |
| Misc: | | | | | | |
| Secondary Page Map | 1/4 seg | 25,0 | 1 seg | 5,0 | | |
| Stack | 1 seg | 27,0 | 1 seg | 1,0 | 1000 | 1400 |
| GC Hash table | 1/2 seg | 73,0 | 1/2 seg | 20,0 | 1400 | 2600 |
| GC Collision * | 1 seg | 74,0 | 1 seg | 21,0 | | |
| GC Overflow ** | 1 | 73,100000 | 1 | 20,100000 | 1640 | 3000 |
| GC Big Ref | 1-? | 73,100400 | 1-? | 20,100400 | | |
| Display Bitmap | 312 | 76,0 | 312 | 22,0 | 1641 | 3001 |
| LockedPageTable | _ | (26,20000) | 20 | 6,70000 | | |
| Map (Dlion only) | 100 | _ | 400 | _ | 400 | 400 |
| IOPage (Dlion only) | 1 | 0,177400 | 1 | 0,177400 | 500 | 1000 |
| SmallPosP's | 1 seg | 16,0 | 1 seg | 16,0 | | |
| SmallNegs | 1 seg | 17,0 | 1 seg | 17,0 | | |
| Arrayspace Start | | 40,0 | | 23,0 | | |
| Atoms: | | | (if 64K atoms) | | | |
| Pname Pointers | 1 seg | 20,0 | 2 seg | 10,0 | | |
| Definitions | 1 seg | 21,0 | 2 seg | 12,0 | | |
| Topvals | 1 seg | 22,0 | 2 seg | 14,0 | | |
| Property Lists | 1 seg | 23,0 | 2 seg | 2,0 | | |
| Atom Hash Table | 1/2 seg | 24,0 | 1 seg | 7,0 | | |
| Pname Chars *** | 8 seg | 30,0 | 6 seg | 72,0 | | |

^{*} Collision table occupies 1 segment, all preallocated, for no particularly good reason. It wants to be big, because once it fills up, you have to disable gc. I have seen the table get as large as a quarter segment. Current algorithms prevent it from being larger than one segment, but it would be easy to make it 2 segments long.

Further notes, June 1986 (post-Koto):

Pname char space now gone—all pnames are allocated from hunks.

Atom Hash Table address range used also for cml Character type (an immediate). With packages, atom hash table will go away eventually.

^{**} GC Overflow table is actually just a few words. Current microcode relies on it being in the same segment as GC Hash, but this is not very important.

^{***} Pname char space is currently far too large for 32K litatoms; it might be about right for 64K, but we plan to dispose of it when pnames are hunked (taken as allocblocks), leaving just enough to get thru MAKEINIT.

^{****} Want to allow a little extra space for DTD in case we expand number of datatypes. This layout allows us to expand from 256 datatypes (8 bits) to 1536 datatypes (11 bits) before bumping into the LockedPageTable.