

Size

mark

next

0

Size

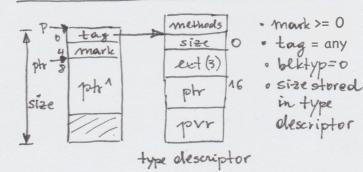
Elktyp := tag MOD 4

tag field		blktyp	heap blk type
>0 00	any	0	Record
>0 101	any	1	Array of record
0 110	2	2	Array of pointer
0 111	3	3	Array of basic type
0 1111	7	3	Array of procedure

(mark < 0) Free heap block

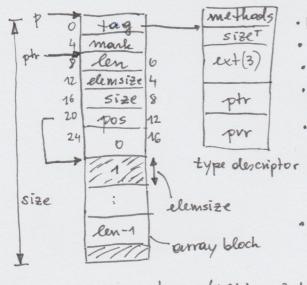
- · mark = -1
- · next points to neet free heap block of this size (32,64,128, n + 256)
- · free blocks are typed (i.e. have fields)

Record (blktyp=0, tag = any)



Array of record (blktyp=1, tag = any)

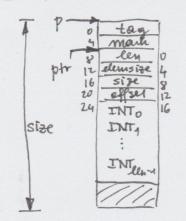
Array of pointer (blktyp=2, tag=2)



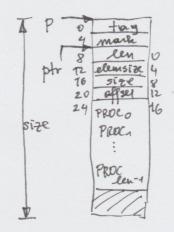
- · mark >= 0
- · tag = any
- · Salktyp=1 · len=# of
- array eleus
- . size stored in ownay block
- (size in type alesc ranord)
- pos = curent element olunius mark
- tag mark len ptr elemsize size 8 offset phro size phy pheny
- · marh >= 0
- tag=2
- · blktyp = 2
- · len = # of pointers
- · offset = current pointer during mark phase
- · no type descriptor

phase Array of basic type (blktyp=3, tag=3,

Array of procedure (blb/yp=3, tag=7)



- * mark >= 0
- tag = 3
- · bektyp=3
- · len = # of array elems
- · elemsize = 1,2 or 4
- · offset = -1
- · no type elescriptor
- · = sysblk in Ceres-Oberon



- · manh >= 0
- tag = 7 blktyp = 3 · len=#of
- procedures
- · ellinsize = 4
- · offsel = -1
- o Traversed duning reflience checking
- · No type descriptor