$\mathbf{Redbin} \square \square \square \square \square$

	_

1.		. 2
2.		. 2
3.		. 3
4.		. 3
	4.1. 00000	. 4
	4.2. 0000	. 4
	4.3. Unset!	. 4
	4.4. None!	. 4
	4.5. Logic!	. 4
	4.6. Block!	. 5
	4.7. Paren!	. 5
	4.8. String!	. 5
	4.9. File!	. 5
	4.10. Url!	. 6
	4.11. Char!	. 6
	4.12. Integer!	. 6
	4.13. Float!	. 6
	4.14. Context!	. 6
	4.15. Word!	. 7
	4.16. Set-word!	. 7
	4.17. Lit-word!	. 7
	4.18. Get-word!	. 8
	4.19. Refinement!	. 8
	4.20. Issue!	. 8
	4.21. Native!	. 8
	4.22. Action!	. 8
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	4.24. Function!	. 9
	4.25. Path!	. 9
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	4.27. Set-path!	. 9
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4.34. Vector!
4.35. Pair!
4.36. Percent!
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4.38. Map! 12
4.39. Binary!
4.40. Time!
4.41. Tag!
4.42. Email!
4.43. Date!
4.44. Reference!
Redbin Redbin<
RedbinDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
• DDDDDDRedbinDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
1. 00000000000
1. 000000000000000000000000000000000000
2. 0000
magic="REDBIN" (6), version=1 (1), flags (1), length (4), size (4) flags (000000000000000000000000000000000000

bit1: 00000 bit2: 00000000 bit3-7: 000000000

3. 00000000

```
000000 length (4), size (4), offset1 (4), offset2 (4),...
```

4. 000000

0000000000320000 header 00000000000

- bit31 : new-line000000
- bit30 : no-values \textsquare \textsquar
- bit29: stack?00000000context0000
- bit27 : set?00000000word0000
- bit26-16: 000000000

• bit7-0 : □□□ **4.1.** 00000 000000 header (4) 000000 n/a header/type=0 **4.2. DDDD** 000000 header (4), value (4) 000000 00 header/type=1 4.3. Unset! 000000 header (4) 000000 00 header/type=2 4.4. None! 000000 header (4) 000000 00 header/type=3 4.5. Logic! 000000 header (4), value=0|1 (4) 000000 00

header/type=4

4.6. Block!

```
000000 header (4), head (4), length (4), ...
000000 00
header/type=5
```

head

length

4.7. Paren!

```
DDDDDD header (4), head (4), length (4), ...
DDDDDD DD
header/type=6
```

4.8. String!

```
header (4), head (4), length (4), data (unit*length) [, padding (1-3)]
header/type=7
header/unit=1|2|4
```

4.9. File!

```
header/type=8
header/unit=1|2|4
```

4.10. Url!

```
DDDDDD header (4), head (4), length (4), data (unit*length)
DDDDDD DD
header/type=9
```

4.11. Char!

```
000000 header (4), value (4)
000000 00
header/type=10
```

4.12. Integer!

```
000000 header (4), value (4)
000000 00
header/type=11
```

4.13. Float!

```
000000 [padding=0 (4),] header (4), value (8)
000000 00
header/type=12
```

4.14. Context!

```
DDDDDD header (4), length (4), symbol1 (4), symbol2 (4),..., value1 [any-type!], value2 [any-type!], ...

DDDDDD DD

header/type=14
header/no-values=0|1
```

header/stack?=0|1 header/self?=0|1

4.15. Word!

```
000000 header (4), symbol (4), context (4), index (4)
000000 00

header/type=15
header/set?=0|1
```

context

4.16. Set-word!

```
DDDDDD header (4), symbol (4), context (4), index (4)
DDDDDD DD
header/type=16
```

word!00000

4.17. Lit-word!

```
DDDDDD header (4), symbol (4), context (4), index (4)

DDDDDD DD

header/type=17
```

word!

4.18. Get-word!

```
000000 header (4), symbol (4), context (4), index (4)
000000 00
header/type=18
```

word!

4.19. Refinement!

```
DDDDDD header (4), symbol (4), context (4), index (4)

DDDDDD DD

header/type=19
```

word!

4.20. Issue!

```
000000 header (4), symbol (4)
000000 00
header/type=20
```

4.21. Native!

```
000000 header (4), ID (4), spec [block!]
000000 00
header/type=21
```

4.22. Action!

```
DDDDDD header (4), ID (4), spec [block!]
DDDDDD DD
header/type=22
```

4.23. Op!

```
000000 header (4), symbol (4),
000000 TBD
header/type=23
```

 ${\color{blue} \textbf{symbol}} \ {\color{blue} \textbf{COOP!}} \ {\color{blue} \textbf{COOD}} \ {$

4.24. Function!

```
header (4), context [context!], spec [block!], body [block!], args [block!], obj-ctx [context!]
```

4.25. Path!

```
000000 header (4), head (4), length (4), ...
000000 00
header/type=25
```

4.26. Lit-path!

```
Default: header (4), head (4), length (4), ...
Compact: TBD
header/type=26
```

4.27. Set-path!

```
000000 header (4), head (4), length (4), ...
000000 00
```

```
header/type=27
```

4.28. Get-path!

```
000000 header (4), head (4), length (4), ...
000000 00
header/type=28
```

4.29. Bitset!

```
header (4), length (4), bits (length)
header/type=30
```

length

4.30. Point!

```
000000 header (4), x (4), y (4), z (4)
000000 00
header/type=31
```

4.31. Object!

```
header (4), context [reference!], class-id (4), on-set-idx (4), on-set-arity (4)
header/type=32
```

4.32. Typeset!

```
000000 header (4), array1 (4), array2 (4), array3 (4)
000000 00
header/type=33
```

4.33. Error!

```
DDDDDD header (4), context [reference!]
DDDDDD DD
header/type=34
```

4.34. Vector!

```
header/type=35
```

4.35. Pair!

```
000000 header (4), x (4), y (4)
000000 00
header/type=37
```

4.36. Percent!

```
DDDDDD [padding=0 (4),] header (4), value (8)
DDDDDD DD
header/type=38
```

4.37. Tuple!

```
000000 header (4), array1 (4), array2 (4), array3 (4)
000000 00
header/type=39
```

4.38. Map!

```
000000 header (4), length (4), ...
000000 00
header/type=40
```

4.39. Binary!

```
000000 header (4), head (4), length (4), ...
000000 00
header/type=41
```

4.40. Time!

```
000000 [padding=0 (4),] header (4), value (8)
000000 00
header/type=43
```

4.41. Tag!

```
header/type=44
header/unit=1|2|4
```

4.42. Email!

```
header (4), head (4), length (4), data (unit*length)
header/type=45
header/unit=1|2|4
```

4.43. Date!

```
000000 header (4), date (4), time (8)
000000 00
header/type=47
```

4.44. Reference!

```
000000 header (4), count (4), index1 (4), index2 (4), ...
000000 00
header/type=255
```

0000000000000any-