8KB block
20 direct block addresses.
(20) direct blocks \[ \Rightarrow 20 \times 4 \text{ KB} = 80 \text{ KB} \]

Disk block = 4 KB

Each direct block address = 4 bytes.

\[ \# \text{ of addresses in a block} = \frac{2^{12} \times 4 \text{ KB}}{2^2 \times 4 \text{ bytes}} = 2^{10} = 1024 \]

\[ (1024 + 20) \times 4 \text{ KB} = 7 \text{ MB} \]
% writes

Avsh

FS cache

5-10% reads

90-95% reads

writes > reads

read from disk, ~5-10 ms.

write ~ few μs.