

before float		
aa		aaaaaaa
after float		

Diagram illustrating memory layout before and after a float conversion:

- before float:** A 32-byte memory block contains 16 bytes of 'a' characters (00000000000000000000000000000000).
- after float:** The 32-byte memory block contains the same 16 bytes of 'a' characters, followed by 16 bytes of zeros (00000000000000000000000000000000).

before float		
bb		
aa		
after float		

Diagram illustrating memory layout changes:

- before float:** A 16-byte block (represented by 16 'a's) and a 4-byte block (represented by 4 'b's').
- after float:** A 20-byte block (represented by 20 'a's) and the same 4-byte block (represented by 4 'b's').

The diagram shows that the 4-byte block containing 'b's' is shared between the two states, indicating a memory overlap or a specific alignment requirement.