

CLAIMS

1. A method of facilitating processing within a computing environment, the method product comprising steps of:
 - determining whether a storage operand request to access a common storage location shared by multiple processing units of a computing environment is restrained; and
 - based on determining that the storage operand request is restrained, temporarily suppressing requesting access to the common storage location pursuant to the storage operand request.
2. The method of claim 1, wherein the temporarily suppressing comprises suppressing processing of the storage operand request where the storage operand request requires access to the common storage location shared by the multiple processing units of the computing environment in order to process the storage operand request.
3. The method of claim 2, wherein the method is performed by a processing unit, and the processing unit further determines whether the storage operand request hits a private cache of the processing unit, and based on the storage operand request producing a hit in the private cache, proceeds with processing of the storage operand request using the private cache, without performing the suppressing.
4. The method of claim 1, wherein the suppressing comprises suppressing processing of the storage operand request until an instruction, or operation of an instruction, associated with the storage operand request is next to complete.
5. The method of claim 1, further comprising placing the storage operand request in a queue of storage operand requests where the storage operand request requires access to the common storage location shared by the multiple processing units of the computing environment.

6. The method of claim 5, wherein the temporarily suppressing includes retaining the storage operand request in the queue of storage operand requests until an instruction, or operation of an instruction, associated with the storage operand request is next to complete.
7. The method of claim 1, further comprising identifying the storage operand request as restrained, the identifying including obtaining, by a processing unit, an access intent instruction indicating an access intent associated with an operand of a next sequential instruction, the access intent indicating usage of the storage operand request is restrained.
8. The method of claim 7, wherein the access intent instruction is a next instruction access intent instruction, and the identifying the storage operand request as restrained includes providing a restrain access intent code within the next instruction access intent instruction.
9. The method of claim 1, wherein the storage operand request is a speculative storage operand request associated with an instruction or an operation of an instruction.
10. A system comprising means adapted for carrying out all the steps of the method according to any preceding method claim.
11. A computer program comprising instructions for carrying out all the steps of the method according to any preceding method claim, when said computer program is executed on a computer system.