Index

access control, 35–47
   access control lists, 37
   ACL, 37
      container ACL, 39
      file ACL, 40
      in MSSA, 39
   authentication, 38
   capabilities, 37
      generation, see capabilities in MSSA
      identity-based, 38
      in MSSA, 41–47
      revocation, see capabilities in MSSA
   transfer, see capabilities in MSSA
   in MSSA, 39
   negative rights, 41
accounting, 26
architecture
   definitions, 17
      byte segment, 19
      container, 24
      custode, 23
      file, 19
      storage layers, 19–23
   framework, 17–33
   goal, 17
authorisation, see access control
BSC
   block allocation, 74
   disk I/O, 74
   metadata, 67
   extent list, 70

identifier generation, 68
   performance, 79–85
CFC, 90
continuous medium data
   rate-based session, 94
   interface, 98
   prototype, 103–114
   semantics, 95
   resource reservation, 93
continuous-medium data, 8
data placement, 13
disk scheduling
   CSCAN, 85
      hard real-time, 106
      read-ahead, 105
   SATF, 85
      write-behind, 105
distributed file systems
   development, 5
   limitations, 7
existence control, 56
extensible, 11
file indexing, 11
motivation, 2
   emerging trends, 8–14
naming, 49–57
   and VAC, 55
   considerations, 51
identifiers
rationale, 49

NVRAM
atomic update, 60–62
existing systems, 86
performance studies, 86
previous use, 61
transaction, 62–67

outline, 2

persistent programming, 12
protection, see access control

research statement, 2

structured data, 10