

(a)

```
subroutine sub1
common /all/ vals(2), nums(2)
end
```

```
subroutine sub2
common /all/ nums(2), vals(2)
end
```

(b)

```
struct common :
  fem::common
{
  fem::variant_core common_all;
  fem::cmn_sve sub1_sve;
  fem::cmn_sve sub2_sve;
};
```

(c)

```
void
sub1(
  common& cmn)
{
  FEM_CMN_SVE(sub1);
  common_variant all(cmn.common_all, sve.all_bindings);
  if (is_called_first_time) {
    using fem::mbr; // member of variant common or equivalence
    {
      mbr<float> vals(dimension(2));
      mbr<int> nums(dimension(2));
      all.allocate(), vals, nums;
    }
  }
  arr_cref<float> vals(all.bind<float>(), dimension(2));
  arr_cref<int> nums(all.bind<int>(), dimension(2));
}
```