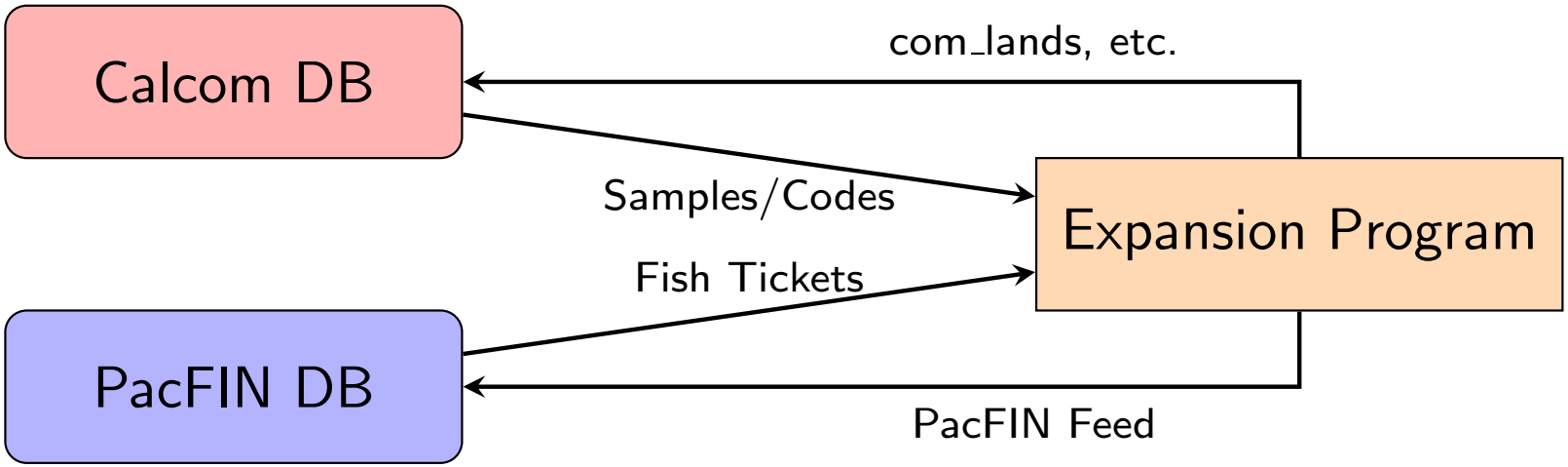
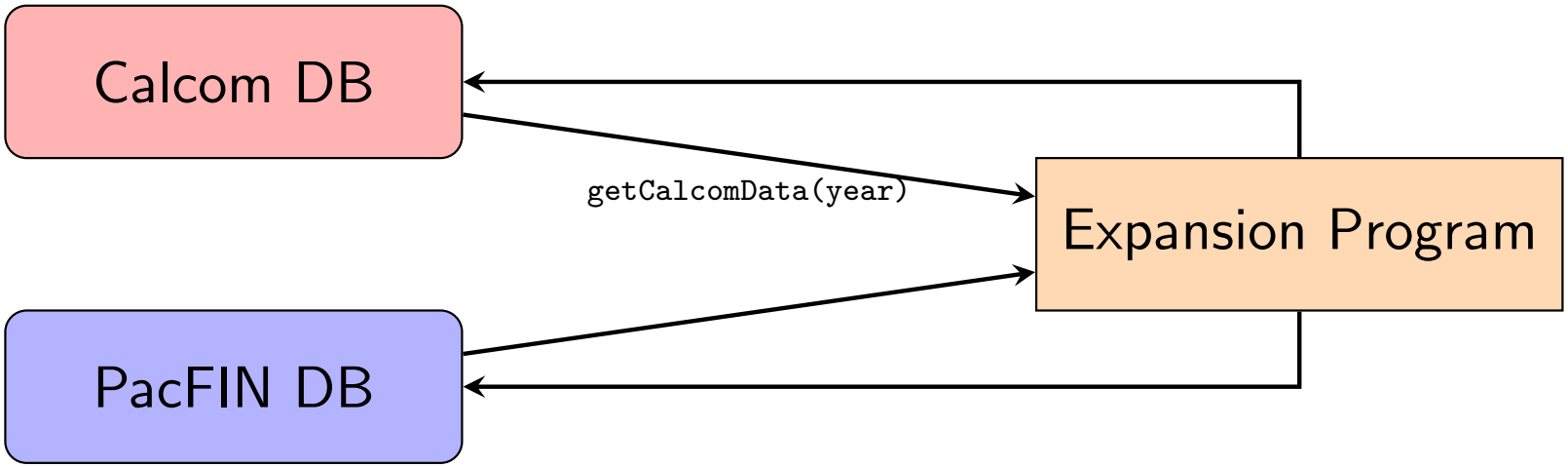

Calcom DB
com_lands, etc.
Samples/Codes
Expansion Program
Fish Tickets
PacFIN DB
PacFIN Feed

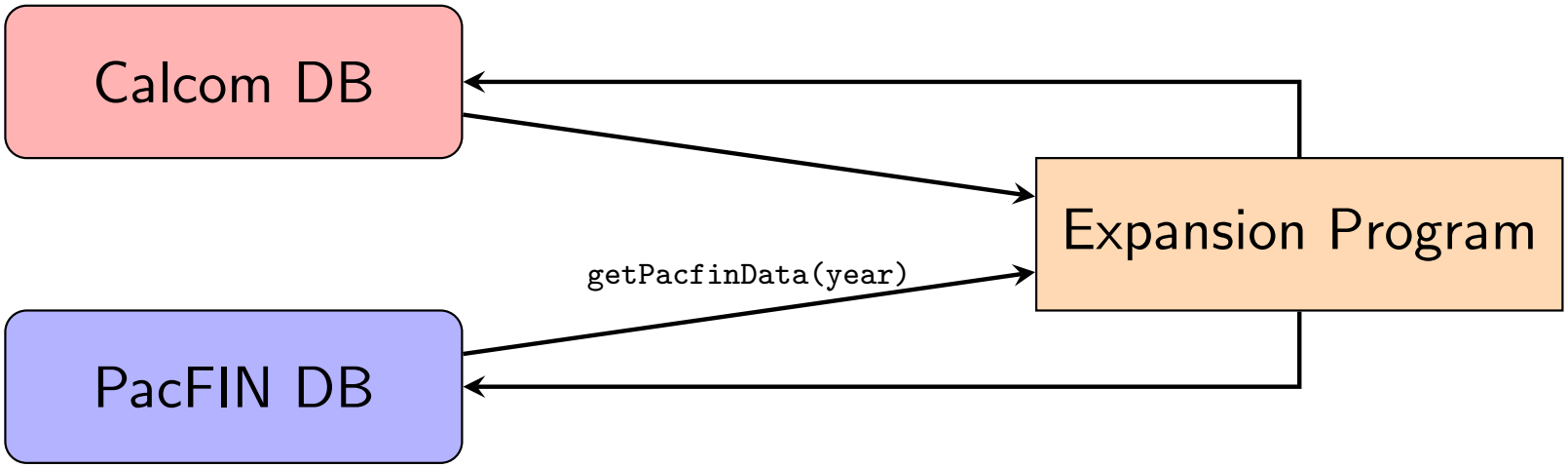

Calcom DB
getCalcomData(year)
Expansion Program
PacFIN DB

- CALCOM Database (requires PSMFC VPN)
- Gear Group, Port Group, and Species Codes
- Market Category / Nominal Species Definitions
- Master Samples / Master Clusts Raw Sample Data

```
R> #Requires a PSMFC IP address
R> calcomDat = getCalcomData(2019)

Reading CALCOM Data From CALCOM Connection...
CALCOM User: ********
Password: ****************

R> summary(calcomDat)
                   Length Class      Mode
gearCodes           5     data.frame list
portCodes           7     data.frame list
nmSpCodes          10     data.frame list
temp1              10     data.frame list
temp2               8     data.frame list
mcat_list           2     data.frame list
species_codes      11     data.frame list
market_categories  10     data.frame list
```

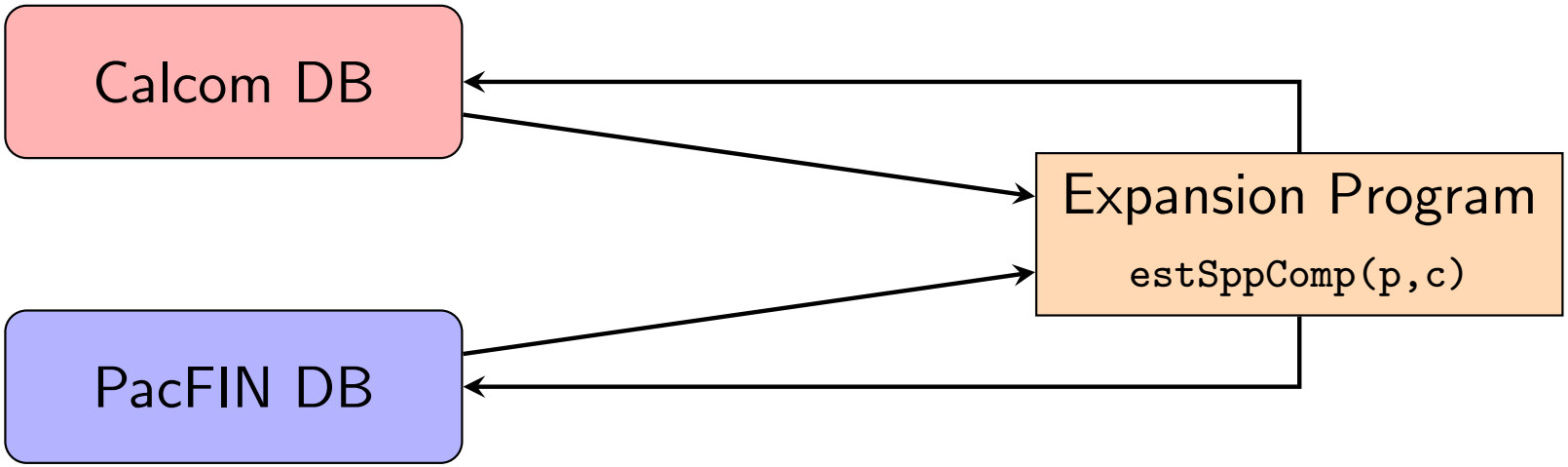

Calcom DB
Expansion Program
getPacfinData(year)
PacFIN DB

- PacFIN Database (requires VPN)
- Fish Tickets

```
R> pacfinTix = getPacfinData(2019)

Reading PacFIN Data From PacFIN Connection...
PacFIN User: ********
Password: ************

R> head(pacfinTix)
  YR MON PORT MCAT COND GEAR     LBS
****   *  ***  ***    *  *** *****.*
****   *  ***  ***    *  *** *****.*
****   *  *** [Redacted] *** *****.*
****   *  ***  ***    *  *** *****.*
****   *  ***  ***    *  *** *****.*
****   *  ***  ***    *  *** *****.*
```

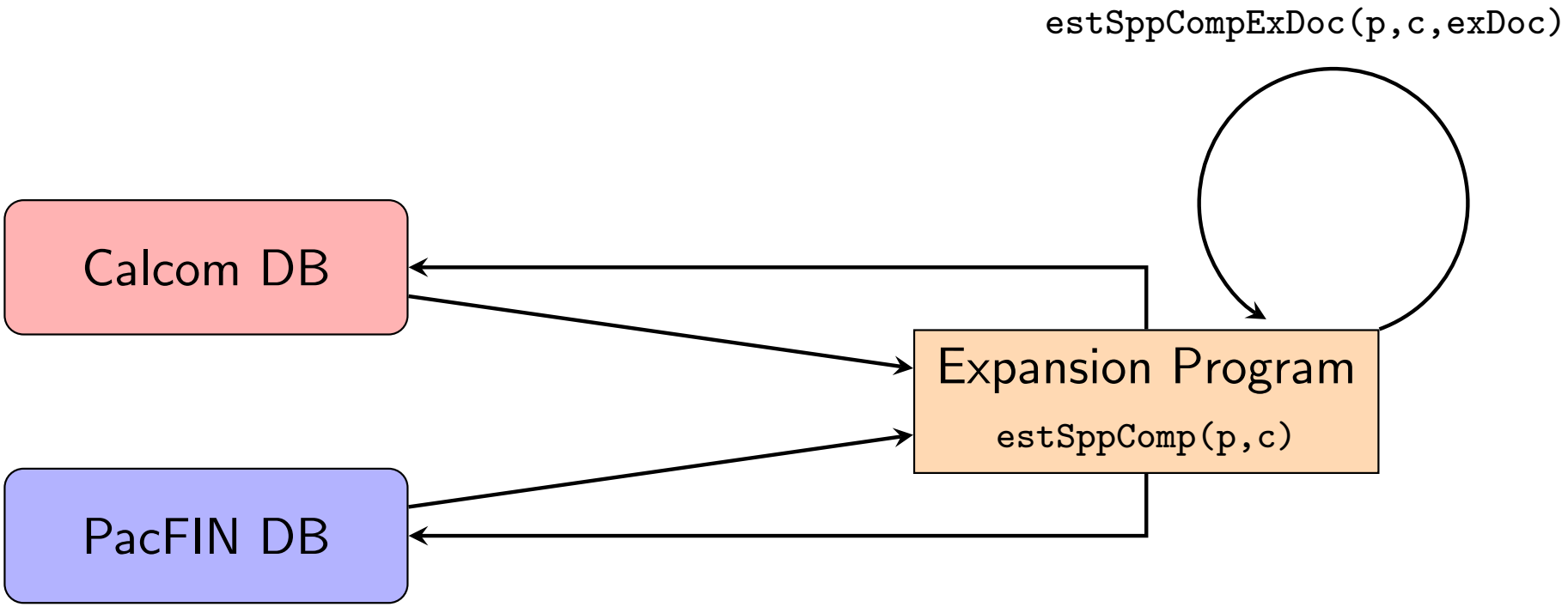

Calcom DB
PacFIN DB
Expansion Program
estSppComp(p,c)

```
R> #Records stratum borrowing details in exdocYYYY.csv
R> sppExp = estSppComp(pacfinTix, calcomDat)
R>
R> sppExp[sppExp$disp=='N' & sppExp$mcat==259 & sppExp$gear=='HKL' & sppExp$source!='N',]
```

year	qtr	disp	mcat	gear	port	source	spp	lands	comp
2019	1	N	259	HKL	CRS	A	YTRK	****.**	1
2019	2	N	259	HKL	CRS	B	YTRK	****.**	1
2019	3	N	259	HKL	CRS	B	YTRK	****.**	1
2019	4	N	259	HKL	CRS	B	YTRK	****.**	1
2019	1	N	259	HKL	ERK	B	OLVE	****.**	1
2019	2	N	259	HKL	ERK	B	OLVE	****.**	1
2019	3	N	259	HKL	ERK	B	OLVE	****.**	1
2019	4	N	259	HKL	ERK	A	OLVE	****.**	1
2019	1	N	259	HKL	BDG	D	OLVE	****.**	1
2019	2	N	259	HKL	BDG	D	OLVE	****.**	1
2019	3	N	259	HKL	BDG	D	OLVE	****.**	1
2019	4	N	259	HKL	BDG	D	OLVE	****.**	1

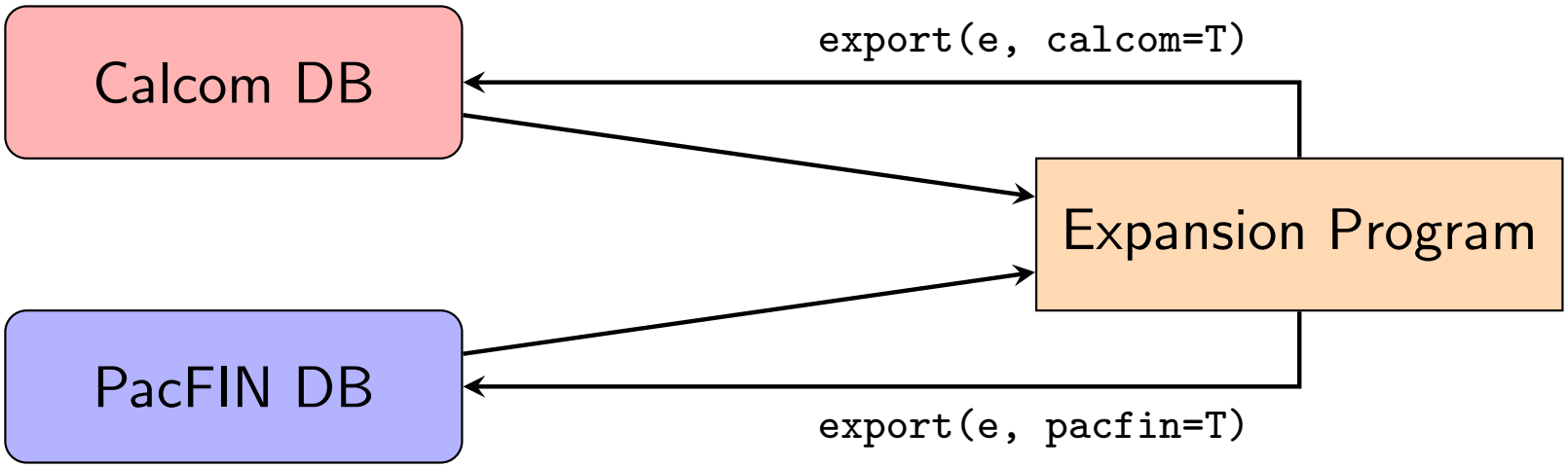
```
bash$ grep '2019,.,N,259,HKL,.*' exdoc2019.csv
2019,1,N,259,HKL,CRS,2019,1,N,259,HKL,CRS,2
2019,2,N,259,HKL,CRS,2019,1,N,259,HKL,CRS,2
2019,3,N,259,HKL,CRS,2019,1,N,259,HKL,CRS,2
2019,4,N,259,HKL,CRS,2019,1,N,259,HKL,CRS,2
2019,1,N,259,HKL,ERK,2019,4,N,259,HKL,ERK,1
2019,2,N,259,HKL,ERK,2019,4,N,259,HKL,ERK,1
2019,3,N,259,HKL,ERK,2019,4,N,259,HKL,ERK,1
2019,4,N,259,HKL,ERK,2019,4,N,259,HKL,ERK,1
2019,1,N,259,HKL,BDG,2019,4,N,259,HKL,ERK,1
2019,2,N,259,HKL,BDG,2019,4,N,259,HKL,ERK,1
2019,3,N,259,HKL,BDG,2019,4,N,259,HKL,ERK,1
2019,4,N,259,HKL,BDG,2019,4,N,259,HKL,ERK,1
```

Expansion Target | Data Used


estSppCompExDoc(p,c,exDoc)
Calcom DB
Expansion Program
estSppComp(p,c)
PacFIN DB

```
R> sppExpExDoc = estSppCompExDoc(pacfinTix, calcomDat, exDoc="exdoc2019NoBDGOLVE.csv")
R>
R> sppExpExDoc[sppExpExDoc$mcat==259 & sppExpExDoc$gear=='HKL' & sppExpExDoc$port=='BDG',]
```

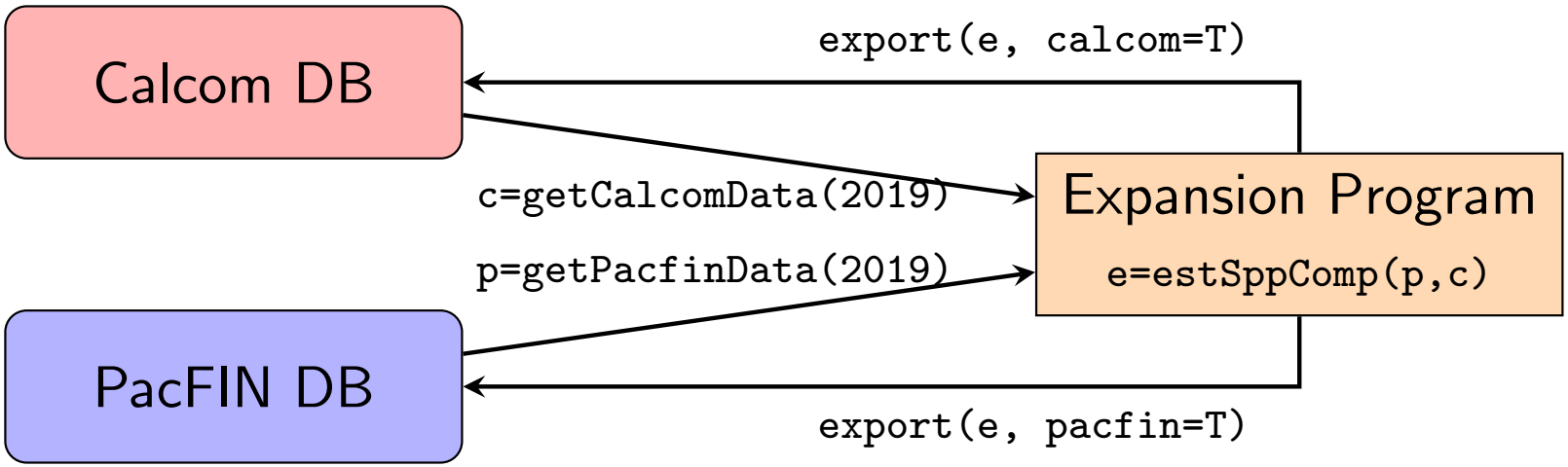
year	qtr	disp	mcat	gear	port	source	spp	lands	comp
2019	1	N	259	HKL	BDG	N	YTRK	****.**	1
2019	2	N	259	HKL	BDG	N	YTRK	****.**	1
2019	3	N	259	HKL	BDG	N	YTRK	****.**	1
2019	4	N	259	HKL	BDG	N	YTRK	****.**	1


Calcom DB
export(e, calcom=T)
Expansion Program
PacFIN DB
export(e, pacfin=T)

```
bash$ head pfeed19.DAT
19N11TWL2471CNRY10000
19N11TWL2691WDOW10000
19N11TWL2711POP 10000
19N11TWL6781LSPN 9619SSPN  381
19N11TWL6791LSPN   23SSPN 9977
19N11TWL9741BCAC 5529CLPR 4471
19N11TWL9751ARRA 4298BANK  134BLGL  166DBRK   78POP
```

```
R> export(sppExpExDoc, pacfin=T, human=T)
```

```
bash$ head hfeed19.csv
year,qtr,disp,mcat,gear,port,source,spp,lands,comp
2019,1,N,147,TWL,OSF,C,LSKT,****.**,1
2019,1,N,195,HKL,CRS,A,LCOD,****.**,1
2019,1,N,195,HKL,ERK,A,LCOD,****.**,1
2019,1,N,195,TWL,BRG,A,LCOD,****.**,1
2019,1,N,195,TWL,ERK,A,LCOD,****.**,1
2019,1,N,195,TWL,OSF,A,PDAB,****.**,0.009
2019,1,N,195,TWL,OSF,A,LCOD,****.**,0.991
```


Calcom DB
export(e, calcom=T)
c=getCalcomData(2019)
Expansion Program
e=estSppComp(p,c)
p=getPacfinData(2019)
PacFIN DB
export(e, pacfin=T)

```
R> year = 2019 #Vectorized in year. year=2010:2020 works.
R> p = getPacfinData(year)

Reading PacFIN Data From PacFIN Connection...
PacFIN User: ********
Password: ************

R> c = getCalcomData(year)

Reading CALCOM Data From CALCOM Connection...
CALCOM User: ********
Password: ****************

R> e = estSppComp(p, c)
R> export(e)
```

```
R> portMatrix
    first second third     fourth    fifth
CRS ERK   BRG    NOMINAL   NOMINAL   NOMINAL
ERK CRS   BRG    BDG       NOMINAL   NOMINAL
BRG ERK   BDG    OSF       CRS       NOMINAL
BDG OSF   BRG    MNT       ERK       NOMINAL
OSF BDG   MNT    BRG       MRO       NOMINAL
MNT OSF   MRO    BDG       NOMINAL   NOMINAL
MRO MNT   OSF    NOMINAL   NOMINAL   NOMINAL
OSB OLA   OSD    NOMINAL   NOMINAL   NOMINAL
OLA OSB   OSD    NOMINAL   NOMINAL   NOMINAL
OSD OLA   OSB    NOMINAL   NOMINAL   NOMINAL
```

```
R> qtrMatrix
  first second third
1     2      3     4
2     3      1     4
3     2      4     1
4     3      2     1
```