

# Program Index

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Summary table of all 70 COBOL programs in the Cook County Tax Extension system, organized by domain prefix.

## Overview

Domain	Prefix	Count	Description
Certificate of Error	ASCOE	2	COE report workfile creation and filtering
Homestead/Senior Freeze	ASHMA	20	Senior Freeze exemption processing pipeline
Real Estate Assessment	ASREA	35	Assessment master maintenance, frozen valuations, homeowner files
Assessment Sequencing	ASSRQ	2	Chicago Circulator mixed-class tax type assignment
Clerk Equalization	CLREB	1	Equalization factor editing and validation
Clerk Tax Rate Mgmt	CLRTM	10	Tax rate computation, TIF processing, agency reporting
<b>Total</b>		<b>70</b>	

## All Programs

Program	Domain	One-Line Description	IMS?	Flags
ASCOE500	ASCOE	Creates COE Report Workfile from IMS database	Yes	
ASCOE515	ASCOE	Filters COE workfile with 22 parameters to create print report	No	
ASHMA440	ASHMA	Extracts VSAM Homestead Master to sequential file	No	
ASHMA550	ASHMA	Three-file merge: updates Assessment Master with homestead/veteran indicators	No	
ASHMA660	ASHMA	Creates Homestead Co-Op Master indexed file	No	
ASHMA825	ASHMA	Creates Senior Freeze File by merging homestead + homeowner data	No	
ASHMA827	ASHMA	Loads Senior Freeze File to IMS Property Info DB (insert/replace segments)	Yes	
ASHMA828	ASHMA	Updates IMS detail segments from CICS journal qualifying data	Yes	Complex; checkpoint/restart

<b>Program</b>	<b>Domain</b>	<b>One-Line Description</b>	<b>IMS?</b>	<b>Flags</b>
ASHMA830	ASHMA	Creates Senior Freeze Proration File from IMS	Yes	
ASHMA831	ASHMA	Populates Current Total (M-VALUE(9)) on Assessment Master	No	
ASHMA832	ASHMA	Updates IMS exemption detail/SS segments from proration file	Yes	
ASHMA836	ASHMA	Applies Senior Freeze exemptions to Assessment Master; creates homestead/homeowner/co-op files	Yes	High complexity
ASHMA839	ASHMA	Match/merge homeowner + assessment; computes NPHE amounts	No	Year-varying rules
ASHMA840	ASHMA	Updates prior year Senior Freeze base values on IMS	Yes	
ASHMA845	ASHMA	Updates Senior Freeze Master Segment with co-op/SF share totals	Yes	
ASHMA850	ASHMA	Computes Senior Freeze Base Value Tax Difference	Yes	Core calc; year-based branching
ASHMA855	ASHMA	Base Year Value Calculation for COE records	No	Cross-domain (ASCOE->ASHMA)
ASHMA857	ASHMA	Same as ASHMA850 but writes sequential file instead of DB update	Yes	Variant of 850
ASHMA859	ASHMA	Compares COE/SF sequential file vs. DB; updates if lower	Yes	
ASHMA921	ASHMA	Extracts Master/D1 segments from IMS to sequential file	Yes	Consolidation candidate
ASHMA922	ASHMA	Same as ASHMA921 filtered for SF Status = 'Q'	Yes	Near-duplicate of 921
ASHMA923	ASHMA	Same as ASHMA921 with different output format (ASSFMSDTF1)	Yes	Near-duplicate of 921
ASREA001	ASREA	Test program for COBOL logic	No	Test only; not production
ASREA002	ASREA	Called subprogram: valuation calc for Types 1-5	No	Superseded by ASREA003
ASREA003	ASREA	Called subprogram: valuation calc for Types 1-5 (Y2K-fixed)	No	Production version
ASREA005	ASREA	Deletes print alignment records from print tapes	No	Utility

<b>Program</b>	<b>Domain</b>	<b>One-Line Description</b>	<b>IMS?</b>	<b>Flags</b>
ASREA007	ASREA	Deletes 1980 Type 1 complaint segments from IMS	Yes	Likely obsolete
ASREA010	ASREA	Matches Tax Code Master with Summary Tape; lists unmatched	No	QA/validation
ASREA018	ASREA	Recomputes overall class in Assessment Master	No	
ASREA105	ASREA	Prints Assessment Master records within parameter ranges	No	Utility
ASREA110	ASREA	Creates RE Summary and Railroad Summary files	No	
ASREA151	ASREA	Computes Farm/Homeowner/Non-Homeowner Assessed Valuation	No	
ASREA178	ASREA	Converts Type 5 detail segments to Type 3	No	
ASREA352	ASREA	Compares/updates Taxcode on Board of Appeals Assessment Master	No	
ASREA740	ASREA	Creates Frozen Valuation File for Quad Townships	No	Consolidation candidate w/ 741
ASREA741	ASREA	Creates Frozen Value File for Non-Quad Towns	No	Consolidation candidate w/ 740
ASREA742	ASREA	Creates Frozen Valuation Detail Selection File	No	
ASREA743	ASREA	Creates Frozen Valuation Division and Division/Taxcode files	No	
ASREA744	ASREA	Creates Frozen Valuation Percentages on Division Taxcode File	No	
ASREA745	ASREA	Updates Frozen Valuations to indexed Frozen Value File	No	
ASREA748	ASREA	Computes Frozen Equalized Values and Tax Amounts per agency	No	
ASREA841	ASREA	Updates Homeowner File with scanned renewal records	No	
ASREA847	ASREA	Updates Homeowner name/address from Property Master	No	
ASREA852	ASREA	Creates New Year Homeowner File	No	Consolidation candidate w/ 853
ASREA853	ASREA	Creates New Year Homeowner File (variant)	No	Consolidation candidate w/ 852
ASREA856	ASREA	Creates Township Homeowner Files	No	

<b>Program</b>	<b>Domain</b>	<b>One-Line Description</b>	<b>IMS?</b>	<b>Flags</b>
ASREA859	ASREA	Creates Senior Freeze File (modified from ASREA853)	No	
ASREA863	ASREA	Edits Homestead EQ Valuation Maintenance records	No	
ASREA864	ASREA	Updates Homestead EQ Valuation File with maintenance records	No	
ASREA866	ASREA	Creates next-gen Homeowner File after status updates	No	
ASREA868	ASREA	Creates H/O records missing base valuations report	No	
ASREA869	ASREA	Creates +1 gen Homeowner Base File after coop/EQ factor updates	No	
ASREA872	ASREA	Prints Homeowner Town Response Report	No	
ASREA874	ASREA	Creates Disabled Exemption File	No	
ASREA880	ASREA	Updates Homeowner Exemption File with taxcode values	No	
ASREA881	ASREA	Updates Homeowner File with tax type	No	
ASREA909	ASREA	Updates Frozen Value File for expired incentive properties	No	
ASSRQ560	ASSRQ	Prints/applies tax types for Chicago Circulator mixed-class records	No	Circulator logic may be disabled
ASSRQ561	ASSRQ	Variant of ASSRQ560	No	Near-duplicate of 560
CLREB020	CLREB	Edits and lists equalization factors to disk file	No	
CLRTM356	CLRTM	Removes TIF parcels from Assessment Master	No	
CLRTM749	CLRTM	Creates Property Report by Agency Number	No	
CLRTM750	CLRTM	Creates Property Report by Town within Agency	No	
CLRTM751	CLRTM	Applies Division Number to RE Division Valuation File	No	
CLRTM752	CLRTM	Applies taxing agencies to Assessment Master via tax codes	No	Critical for accuracy
CLRTM753	CLRTM	Computes Disconnected and Annexed Agency Valuation	No	

Program	Domain	One-Line Description	IMS?	Flags
CLRTM755	CLRTM	Updates Frozen Agency File with disconnected/annexed valuations	No	
CLRTM756	CLRTM	Updates New Property EQ Valuation on VSAM Agency File	No	
CLRTM757	CLRTM	Creates Updated TIF Difference File and reports	No	Financially significant
CLRTM759	CLRTM	Updates TIF Prior Year Frozen EQ Value on Frozen Agency File	No	Financially significant

## IMS Database Programs

15 programs access the IMS Property Information Database (PIFDBP10):

ASCOE500, ASHMA827, ASHMA828, ASHMA830, ASHMA832, ASHMA836, ASHMA840, ASHMA845, ASHMA850, ASHMA857, ASHMA859, ASHMA921, ASHMA922, ASHMA923, ASREA007

## Called Subprograms

2 programs are called subprograms (no standalone execution):

- **ASREA002** -- Valuation calculator (original, superseded)
- **ASREA003** -- Valuation calculator (Y2K-fixed, production)

## Programs Flagged for Modernization Review

Program	Flag
ASREA001	Test program only; not production
ASREA002	Superseded by ASREA003
ASREA007	Hard-coded to 1980; likely obsolete
ASHMA828	Complex CICS journal interface with checkpoint/restart
ASHMA850	Core Senior Freeze calculation; year-based branching 1993-2018
ASHMA839	NPHE calculation with year-varying business rules
ASHMA921/922/923	Near-duplicate programs; consolidation candidates
ASREA740/741	Near-duplicates (quad/non-quad); consolidation candidates
ASREA852/853	Near-duplicates; consolidation candidates
ASSRQ560/561	Near-duplicates; consolidation candidates
ASSRQ560	Circulator logic commented out for 2013; verify current status

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## Detailed Documentation

For complete program documentation including inputs, outputs, copybooks, and business logic, see the domain-specific files:

- [ASCOE-programs.md](#) -- Certificate of Error (2 programs)
- [ASHMA-programs.md](#) -- Homestead/Senior Freeze (20 programs)
- [ASREA-programs.md](#) -- Real Estate Assessment (35 programs)
- [ASSRQ-programs.md](#) -- Assessment Sequencing (2 programs)
- [CLREB-programs.md](#) -- Clerk Equalization (1 program)
- [CLRMTM-programs.md](#) -- Clerk Tax Rate Management (10 programs)