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RD	0.99994 ± 0.00058067	0.99994 ± 0.00058067	0.999941 ± 0.000005	0.9998 ± 0.00002
Recon	0.999435 ± 0.000807882	0.99962 ± 0.00114964	0.999995 ± 0.000002	0.9607 ± 0.0006
Beam	$0.0991907 \pm 5.07449E - 05$	$0.0943145 \pm 4.82502E - 05$	0.105377 ± 0.000164	0.1433 ± 0.0010
PV	0.482033 ± 0.00245622	0.258995 ± 0.00135941	0.533731 ± 0.002345	0.3896 ± 0.0017
Total	0.0477833 ± 0.00245622	0.0244162 ± 0.00135941	0.056240 ± 0.000262	0.0536 ± 0.005

Table 1: Acceptance Summary Table.

Table 2: Muon RD Branch no. 1

Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>BADRUN</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>ictime - cktbm</i>	3433350 (-)	3433350 (-)	- (-)	- (-)
<i>icbit</i>	3431511 (-)	3431511 (-)	- (-)	- (-)
<i>b4dedx</i>	3328533 (-)	3328533 (-)	- (-)	- (-)
<i>UTC</i>	3323411 (-)	3323411 (-)	- (-)	- (-)
<i>TARGET</i>	3323411 (-)	3323411 (-)	- (-)	- (-)
<i>utcqual Loose</i>	2965440 (-)	2965440 (-)	- (-)	- (-)
<i>RD_{TRK}</i>	2965440 (1)	2965440 (1)	- (1.0000)	- (1.0000)
<i>TRKTIM</i>	2965262 (0.99994)	2965262 (0.99994)	- (0.999941)	- (0.9998)
Total Acc.	0.99994 ± 0.00058067	0.99994 ± 0.00058067	0.999941 ± 0.000005	0.9998 ± 0.00002

Table 3: Muon Recon Branch no. 1

Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>BADRUN</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>ictime - cktbm</i>	3433350 (-)	3433350 (-)	- (-)	- (-)
<i>icbit</i>	3431511 (-)	3431511 (-)	- (-)	- (-)
<i>b4dedx</i>	3328533 (-)	3328533 (-)	- (-)	- (-)
<i>cpitrs</i>	3283857 (-)	3283857 (-)	- (-)	- (-)
<i>cpitail</i>	3280633 (-)	3280633 (-)	- (-)	- (-)
<i>cktrs</i>	3113831 (-)	3113831 (-)	- (-)	- (-)
<i>cktail</i>	3034092 (-)	3034092 (-)	- (-)	- (-)
<i>bwtrs</i>	2836697 (-)	2836697 (-)	- (-)	- (-)
<i>PVnoBV Loose60</i>	1530547 (-)	756094 (-)	- (-)	- (-)
<i>RD_TRK</i>	1530547 (-)	756094 (-)	- (-)	- (-)
<i>TRKTIM</i>	1530430 (-)	756041 (-)	- (-)	- (-)
<i>abs(ictime - trs)</i>	1530430 (-)	756041 (-)	- (-)	- (-)
<i>RDUTM</i>	1529566 (0.999435)	755754 (0.99962)	- (0.99995)	- (DNE)
<i>TARGET</i>	1529566 (1)	755754 (1)	- (1.0000)	- (0.9969)
Total Acc.	0.999435 ± 0.000807882	0.99962 ± 0.00114964	0.999995 ± 0.000002	0.9607 ± 0.0006

Table 4: Muon Beam Branch no. 1

Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>BADRUN</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>RD_TRK</i>	5361333 (-)	5361333 (-)	- (-)	- (-)
<i>TRKTIM</i>	5359455 (-)	5359455 (-)	- (-)	- (-)
<i>RDUTM</i>	5128436 (-)	5128436 (-)	- (-)	- (-)
<i>TARGET</i>	5128436 (-)	5128436 (-)	- (-)	- (-)
<i>icbit</i>	5125521 (-)	5125521 (-)	- (-)	- (-)
<i>KMU2BOX</i>	4244117 (-)	4244117 (-)	- (-)	- (-)
<i>cos3d</i>	4098214 (-)	4098214 (-)	- (-)	- (-)
<i>utcqual Loose</i>	3820832 (-)	3820832 (-)	- (-)	- (-)
<i>TGCUT</i>	3740133 (0.978879)	3740133 (0.978879)	- (0.997530)	- (unsure)
<i>tgqualt</i>	3609821 (0.965158)	3609821 (0.965158)	- (0.999391)	- (1.0000)
<i>npitg</i>	3609821 (1)	3609821 (1)	- (0.963969)	- (1.0000)
<i>timcon</i>	3604532 (0.998535)	3604532 (0.998535)	- (0.990271)	- (0.9959)
<i>tgtcon</i>	3565544 (0.989184)	3565544 (0.989184)	- (0.989307)	- (DNE)
<i>b4etcon</i>	3530237 (0.990098)	3530237 (0.990098)	- (0.990130)	- (DNE)
<i>DCBIT</i>	3109678 (0.880869)	3109678 (0.880869)	- (0.874680)	- (0.8941)
<i>DELCO</i>	3072475 (0.988036)	3072475 (0.988036)	- (0.987459)	- (0.8168)
<i>Delc Loose</i>	2664818 (0.86732)	2190478 (0.712936)	- (0.8969)	- (0.9207)
<i>PSCUT</i>	2527750 (0.948564)	2073883 (0.946772)	- (0.948201)	- (0.9830)
<i>b4dedx</i>	2513897 (0.99452)	2062429 (0.994477)	- (0.994543)	- (0.9944)
<i>bwtrs</i>	2307257 (0.917801)	1891494 (0.91712)	- (0.917513)	- (0.9934)
<i>cpitrs</i>	2303368 (0.998314)	1888374 (0.998351)	- (0.998477)	- (0.9996)
<i>cpitail</i>	2302296 (0.999535)	1887509 (0.999542)	- (0.999542)	- (DNE)
<i>cktrs</i>	2287628 (0.993629)	1878195 (0.995065)	- (0.994484)	- (0.9997)
<i>cktail</i>	2250760 (0.983884)	1867022 (0.994051)	- (0.984502)	- (DNE)
<i>b4trs</i>	2193003 (0.974339)	1817521 (0.973487)	- (0.973380)	- (0.9963)
<i>b4ccd</i>	2163009 (0.986323)	1797944 (0.989229)	- (0.986150)	- (0.9951)
<i>upvtrs</i>	2127441 (0.983556)	1769453 (0.984154)	- (0.982751)	- (1.000)
<i>rvtrs</i>	2125410 (0.999045)	1767859 (0.999099)	- (composite)	- (DNE)
<i>tggeo</i>	2040061 (0.959844)	1695449 (0.959041)	- (0.959114)	- (notmeasured)
<i>b4ekz</i>	1859929 (0.911703)	1543315 (0.910269)	- (0.909407)	- (0.7680)
<i>tgzfool</i>	1836965 (0.987653)	1524272 (0.987661)	- (0.987864)	- (0.9969)
<i>targf</i>	1777774 (0.967778)	1475003 (0.967677)	- (0.968741)	- (0.9785)
<i>dtgttp</i>	1777767 (0.999996)	1474996 (0.999995)	- (0.999952)	- (0.9999)
<i>rtdif</i>	1760749 (0.990427)	1460801 (0.990376)	- (0.989823)	- (0.9976)
<i>tgktim</i>	1743416 (0.990156)	1455492 (0.996366)	- (0.990335)	- (0.9833)
<i>eiccon</i>	1696635 (0.973167)	1416506 (0.973215)	- (0.973054)	- (0.9970)
<i>ticcon</i>	1696631 (0.999998)	1416503 (0.999998)	- (0.99997)	- (0.9988)
<i>pigap</i>	1661808 (0.979475)	1387456 (0.979494)	- (0.991553)	- (0.9942)
<i>tgdb4</i>	1634838 (0.983771)	1364600 (0.983527)	- (composite)	- (composite)
<i>tgdb4tip</i>	1626593 (0.994957)	1357491 (0.99479)	- (NA)	- (NA)
<i>tgdvrtip</i>	1620182 (0.996059)	1352032 (0.995979)	- (composite)	- (composite)
<i>tgdvxpi</i>	1584457 (0.97795)	1324230 (0.979437)	- (composite)	- (composite)
TGB4	1584457 (1)	1324230 (1)	- (0.953158)	- (0.9609)
<i>phivtx1</i>	1537432 (0.970321)	1280689 (0.96712)	- (0.971139)	- (0.9635)
<i>ccd pul</i>	462380 (0.300748)	440266 (0.343773)	- (0.318036)	- (0.4312)

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Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>timkf</i>	415446 (0.898495)	395334 (0.897944)	- (0.896792)	- (0.9286)
<i>verrng</i>	387603 (0.93298)	368814 (0.932917)	- (0.932534)	- (0.9272)
<i>angli</i>	387355 (0.99936)	368573 (0.999347)	- (0.999393)	- (0.9999)
<i>ALLK fit</i>	379844 (0.98061)	361204 (0.980007)	- (0.980696)	- (0.9953)
<i>tpics</i>	379304 (0.998578)	360672 (0.998527)	- (0.998594)	- (0.9987)
<i>kic</i>	379202 (0.999731)	360571 (0.99972)	- (0.999737)	- (0.9993)
<i>epionk</i>	378991 (0.999444)	360360 (0.999415)	- (0.999515)	- (0.9852)
Total Acc.	$0.0991907 \pm 5.07449E - 05$	$0.0943145 \pm 4.82502E - 05$	0.105377 ± 0.000164	0.1433 ± 0.0010

Table 5: Muon PV Branch no. 1

Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>BADRUN</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>icbit</i>	5357248 (-)	5357248 (-)	- (-)	- (-)
<i>KMU2BOX</i>	4244126 (-)	4244126 (-)	- (-)	- (-)
<i>cos3d</i>	4098223 (-)	4098223 (-)	- (-)	- (-)
<i>utcqual Loose</i>	3820837 (-)	3820837 (-)	- (-)	- (-)
<i>RD_TRK</i>	3820837 (-)	3820837 (-)	- (-)	- (-)
<i>TRKTIM</i>	3820832 (-)	3820832 (-)	- (-)	- (-)
<i>RDUTM</i>	3820832 (-)	3820832 (-)	- (-)	- (-)
<i>TARGET</i>	3820832 (-)	3820832 (-)	- (-)	- (-)
<i>TGCUT</i>	3740133 (-)	3740133 (-)	- (-)	- (-)
<i>tgqualt</i>	3609821 (-)	3609821 (-)	- (-)	- (-)
<i>npitg</i>	3609821 (-)	3609821 (-)	- (-)	- (-)
<i>timcon</i>	3604532 (-)	3604532 (-)	- (-)	- (-)
<i>tgtcon</i>	3565544 (-)	3565544 (-)	- (-)	- (-)
<i>b4etcon</i>	3530237 (-)	3530237 (-)	- (-)	- (-)
<i>DCBIT</i>	3109678 (-)	3109678 (-)	- (-)	- (-)
<i>DELCO</i>	3072475 (-)	3072475 (-)	- (-)	- (-)
<i>Delc Loose</i>	2664818 (-)	2190478 (-)	- (-)	- (-)
<i>PSCUT</i>	2527750 (-)	2073883 (-)	- (-)	- (-)
<i>b4dedx</i>	2513897 (-)	2062429 (-)	- (-)	- (-)
<i>bwtrs</i>	2307257 (-)	1891494 (-)	- (-)	- (-)
<i>cpitrs</i>	2303368 (-)	1888374 (-)	- (-)	- (-)
<i>cpitail</i>	2302296 (-)	1887509 (-)	- (-)	- (-)
<i>cktrs</i>	2287628 (-)	1878195 (-)	- (-)	- (-)
<i>cktail</i>	2250760 (-)	1867022 (-)	- (-)	- (-)
<i>b4trs</i>	2193003 (-)	1817521 (-)	- (-)	- (-)
<i>b4ccd</i>	2163009 (-)	1797944 (-)	- (-)	- (-)
<i>upvtrs</i>	2127441 (-)	1769453 (-)	- (-)	- (-)
<i>rvtrs</i>	2125410 (-)	1767859 (-)	- (-)	- (-)
<i>tggeo</i>	2040061 (-)	1695449 (-)	- (-)	- (-)
<i>b4ekz</i>	1859929 (-)	1543315 (-)	- (-)	- (-)
<i>tgz fool</i>	1836965 (-)	1524272 (-)	- (-)	- (-)
<i>targf</i>	1777774 (-)	1475003 (-)	- (-)	- (-)
<i>dtgttp</i>	1777767 (-)	1474996 (-)	- (-)	- (-)
<i>rtdif</i>	1760749 (-)	1460801 (-)	- (-)	- (-)
<i>tgktim</i>	1743416 (-)	1455492 (-)	- (-)	- (-)
<i>iccon</i>	1696635 (-)	1416506 (-)	- (-)	- (-)
<i>ticcon</i>	1696631 (-)	1416503 (-)	- (-)	- (-)
<i>pi gap</i>	1661808 (-)	1387456 (-)	- (-)	- (-)
<i>tgdb4</i>	1634838 (-)	1364600 (-)	- (-)	- (-)
<i>tgdb4tip</i>	1626593 (-)	1357491 (-)	- (-)	- (-)
<i>tgdvrtip</i>	1620182 (-)	1352032 (-)	- (-)	- (-)
<i>tgdvxpi</i>	1584457 (-)	1324230 (-)	- (-)	- (-)
TGB4	1584457 (-)	1324230 (-)	- (-)	- (-)
<i>phivtx1</i>	1537432 (-)	1280689 (-)	- (-)	- (-)
<i>ccd pul</i>	462380 (-)	440266 (-)	- (-)	- (-)

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Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>timkf</i>	415446 (-)	395334 (-)	- (-)	- (-)
<i>verrng</i>	387603 (-)	368814 (-)	- (-)	- (-)
<i>angli</i>	387355 (-)	368573 (-)	- (-)	- (-)
<i>ALLK fit</i>	379844 (-)	361204 (-)	- (-)	- (-)
<i>tpics</i>	379304 (-)	360672 (-)	- (-)	- (-)
<i>kic</i>	379202 (-)	360571 (-)	- (-)	- (-)
<i>epionk</i>	378991 (-)	360360 (-)	- (-)	- (-)
<i>lay < 19</i>	38514 (-)	36298 (-)	- (-)	- (-)
<i>lhex</i>	35948 (0.933375)	33882 (0.93344)	- (0.933090)	- (0.9417)
<i>HEXAfter</i>	34625 (0.963197)	32643 (0.963432)	- (0.962583)	- (DNE)
<i>PVOnline</i>	33163 (0.957776)	31262 (0.957694)	- (0.949123)	- (0.9752)
<i>Lay20or21</i>	32911 (0.992401)	31024 (0.992387)	- (0.991913)	- (DNE)
<i>STLAY</i>	32600 (0.99055)	30736 (0.990717)	- (0.988946)	- (0.9828)
<i>RSHEX</i>	31436 (0.964294)	29628 (0.963951)	- (0.964459)	- (0.9504)
<i>PVCUT</i>	30211 (0.961032)	28473 (0.961017)	- (0.961588)	- (0.9779)
<i>TGPVCUT</i>	29983 (0.992453)	28259 (0.992484)	- (0.991367)	- (0.9968)
<i>TGPVTR</i>	29983 (1)	28259 (1)	- (NA)	- (NA)
<i>tgpv Loose60</i>	29113 (0.970984)	26106 (0.923812)	- (composite)	- (0.8739)
<i>ICPV Loose60</i>	29089 (0.999176)	26089 (0.999349)	- (composite)	- (0.9898)
<i>VCPV Loose60</i>	29071 (0.999381)	26039 (0.998083)	- (composite)	- (0.9958)
<i>COPV Loose60</i>	28896 (0.99398)	25926 (0.99566)	- (composite)	- (0.9828)
<i>MCPV Loose60</i>	28893 (0.999896)	25917 (0.999653)	- (composite)	- (0.9998)
<i>ECPVinner Loose60</i>	25035 (0.866473)	20211 (0.779836)	- (composite)	- (0.8646)
<i>ECPVouter Loose60</i>	23263 (0.929219)	16469 (0.814853)	- (composite)	- (0.9787)
<i>ECPV2nd Loose60</i>	23088 (0.992477)	15264 (0.926832)	- (composite)	- (0.7818)
<i>RDPV Loose60</i>	21386 (0.926282)	10872 (0.712264)	- (composite)	- (0.9149)
<i>BVPV Loose60</i>	19868 (0.929019)	9954 (0.915563)	- (composite)	- (0.9419)
<i>BVLPV Loose60</i>	19567 (0.98485)	9841 (0.988648)	- (composite)	- (DNE)
<i>ADPV Loose60</i>	18585 (0.949813)	9407 (0.955899)	- (composite)	- (0.9696)
<i>earlyBVPV Loose60</i>	18567 (0.999031)	9403 (0.999575)	- (composite)	- (DNE)
<i>DSPV Loose60</i>	18565 (0.999892)	9401 (0.999787)	- (composite)	- (DNE)
<i>PVpnn2 Loose60</i>	18565 (1)	9401 (1)	- (0.694200)	- (0.4669)
Total Acc.	0.482033 ± 0.00245622	0.258995 ± 0.00135941	0.533731 ± 0.002345	0.3896 ± 0.0017

Table 6: Muon layer14 study Branch no. 1

Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>BADRUN</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>Trigger</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>LAYER14</i>	5357321 (0.999237)	5357321 (0.999237)	- (notmeasured)	- (notmeasured)
Total Acc.	0.999237 \pm 0.000431548	0.999237 \pm 0.000431548	<i>not \pm measured</i>	<i>not \pm measured</i>

Table 7: Muon UTCqual Study Branch no. 1

Cuts	km2loose acc	km2tight acc	ickm2acc acc	bipulkm2acc acc
<i>BADRUN</i>	5361411 (-)	5361411 (-)	- (-)	- (-)
<i>ictime - cktbm</i>	3433350 (-)	3433350 (-)	- (-)	- (-)
<i>icbit</i>	3431511 (-)	3431511 (-)	- (-)	- (-)
<i>b4dedx</i>	3328533 (-)	3328533 (-)	- (-)	- (-)
<i>cpitrs</i>	3283857 (-)	3283857 (-)	- (-)	- (-)
<i>cpitail</i>	3280633 (-)	3280633 (-)	- (-)	- (-)
<i>cktrs</i>	3113831 (-)	3113831 (-)	- (-)	- (-)
<i>ctail</i>	3034092 (-)	3034092 (-)	- (-)	- (-)
<i>bwtrs</i>	2836697 (-)	2836697 (-)	- (-)	- (-)
<i>PVnoBV Loose60</i>	1530547 (-)	756094 (-)	- (-)	- (-)
<i>RD_TRK</i>	1530547 (-)	756094 (-)	- (-)	- (-)
<i>TRKTIM</i>	1530430 (-)	756041 (-)	- (-)	- (-)
<i>abs(ictime - trs)</i>	1530430 (-)	756041 (-)	- (-)	- (-)
<i>RDUTM</i>	1529566 (0.999435)	755754 (0.99962)	- (0.99995)	- (DNE)
<i>UTC</i>	1529566 (1)	755754 (1)	- (0.943491)	- (1.0000)
<i>utcqual Loose</i>	1409801 (0.9217)	703412 (0.930742)	- (0.872660)	- (0.9637)
<i>TARGET</i>	1409801 (1)	703412 (1)	- (1.0000)	- (0.9969)
Total Acc.	0.92118 ± 0.000744625	0.930389 ± 0.00107002	<i>not \pm measured</i>	<i>NA \pm NA</i>